

Application Package

JOB SUMMARY:

The Cloud Full Stack Developer is a member of the PHC DevOps & Infrastructure team within the Health Informatics Department at Providence Healthcare (PHC). The primary focus of this team is to promote the combination of cultural philosophies, practices, and tools that increases the PHC organization's ability to deliver applications and services at high velocity: evolving and improving products at a faster pace than organizations using traditional software development and infrastructure management processes, using Cloud computing infrastructure. The team focuses on enabling the PHC end-to-end journey from On-Premise to Cloud, with opportunities in the areas of: Cloud Strategy, Op Model Transformation, Cloud Development, Cloud Integration & APIs, Cloud Migration, Cloud Infrastructure & Engineering, and Cloud Managed Services. Development of all custom applications within PHSa PaaS environments will be done in accordance with PHSa enterprise-level security and in close collaboration with PHSa IMITS Technical Services.

Reporting to the Director, Data Analytics, the Cloud Full Stack Developer is responsible to design, plan, develop, configure, document, deploy, troubleshoot, and maintain software applications and services for use in Providence Health Care (PHC) Business and Clinical Solutions, Business Intelligence, Advanced Analytics and Emerging Technologies. The Cloud Full Stack Developer will analyze design requirements, research, implement new development, unit testing, performance testing, security, code promotion/review, rewriting and refactoring applications, and provide maintenance of digital products. In some cloud native applications, the Developer will develop micro-services based applications or migrate existing monolithic applications into micro-services based architecture.

The Full Stack Developer will be proficient in developing and deploying web applications and data integration pipelines in the cloud and will have extensive experience in several areas of our current technology stacks (multiple back-end languages, e.g. C#, Java, Python and JavaScript frameworks e.g. Angular, React, Node.js). The Developer will integrate and write REST APIs to help deliver PHC's next generation of innovative applications and solutions. The position will own and support applications and tools from development to operations, contributing to improve quality and efficiency with standard practices for software engineering and DevOps.

The Full Stack Developer works closely with Business Analysts, Quality Assurance Analysts, other developers, Operations and Architects from Health Informatics and its partners to support design and implement solutions for different problems and applications as directed by the department's objectives.

Skills and Abilities:

Strong coding skills of different languages, including Python, Java, C#, ReactJS/AngularJS, Node.js and JavaScript.

Expert-level understanding of software development, deployment and release processes, especially within a DevOps practice and DevOps toolset.

Proven ability to develop highly available applications in a cloud environment, such as Amazon AWS and Microsoft Azure. Understanding of cloud reference architectures and AWS/Azure best practices.

Expertise in modernization pathways and techniques. Expertise with containers and orchestration (Docker, microservices, Kubernetes, etc) and message-driven architectures.

Proficiency in designing and implementing RESTful APIs and integrating with third party APIs.

Proficiency in designing web UI elements such as input controls, navigational and informational components and in-depth use and experience with HTML5, CSS3.

Proficiency in developing applications with Amazon Lambda and Microsoft Power Apps.

Proficiency in using AWS/Azure Command-Line Interface (CLI) and SDKs to write applications.

Demonstrated ability using agile methodologies (SCRUM, Kanban, SAFe).

Ability to use a Continuous Integration / Continuous Delivery (CICD) pipeline to deploy applications on AWS and Azure.

Proficiency with version control tools including Git and cloud repositories, e.g. GitHub.

Demonstrated ability with RDBMS or NoSQL DB.

Ability to write clean, well designed, unit-tested, and efficient code.

Demonstrated ability in delivering complex and large-scale IT projects.

Strong interpersonal skills including working in a team environment with a client/user orientation.

Ability to work effectively with multi-disciplinary teams with different lines of reporting.

Effective verbal and written communication skills, with competency in writing reports, explaining findings and making presentations to clients and stakeholders.

Demonstrated attention to detail and maintenance of high quality standards.

Ability to work independently, meet deadlines under pressure, with minimal supervision and frequent interruptions.

Physical ability to perform the duties of the position.

Qualifications

Education:

- Bachelor's degree in Computer Science, Engineering, Information Systems Management or other related technical discipline, plus at least five (5) years' experience as a Full Stack Developer

- three (3) years' experience in developing and deploying cloud-native applications in either Azure or AWS cloud environments
- two (2) years' experience in developing in Object Oriented Programming Languages (Java/JVM, .Net, Node.js, or Python preferred) or an equivalent combination of education, training and experience.

Microsoft Azure Solutions / Architecting Microsoft Azure and AWS Certified Developer - Associate are required.

Reference

“Cloud Full Stack Developer”, UBC CareersOnline. Accessed August 8, 2022. <https://ubc-csm.symplicity.com/students/index.php?s=jobs&ss=jobs&mode=form&id=07a57a9e0b8eb22c489c92612b0ac436>”

Benson Lin
123 100 Street
Surrey, BC XXX 123
778-999-3333

August 8, 2022

Human Resources
Providence Health Care
1081 Burrard Street
Vancouver, BC V6Z 1Y6

RE: Application for the Cloud Full Stack Developer Position

Dear Hiring Manager,

I am writing this to apply for the Cloud Full Stack Developer position at Providence Healthcare. I have experience with developing cloud based applications using AWS from internships at Amazon, and deploying applications with a CICD pipeline using Jenkins from my Site Reliability Engineer internship from Visier. My work experiences are closely related to job description which encouraged me to apply.

I am currently completing my degree majoring in Computer Science from UBC and I have two years of co-op work experience in software development and DevOps. In my internships with Amazon, I designed and implemented applications using AWS services such as Amazon API Gateway, Amazon Lambda, DynamoDb, and AWS StepFunctions. I was responsible for designing the infrastructure, deploying the application, and fully testing the application before the deadline. I gathered requirements from various stakeholders from different teams to ensure that the design met their expectations.

I am impressed with the team's commitment to developing cloud applications and services that improve the organization's speed and efficiency. I believe that my proficiency in developing applications using AWS in languages such as Java, Python, and TypeScript would benefit the team greatly.

I would be delighted to discuss my qualifications and fit with the PHC DevOps and Infrastructure team. Please contact me directly at bensoin@live.ca or at 778-999-3333. Thank you for your time and consideration. I look forward to hearing from you.

Sincerely,

Benson Lin

BENSON LIN

4TH YEAR, COMPUTER SCIENCE MAJOR

(778) 994-XXXX ◊ bensonlin@live.ca ◊ www.linkedin.com/in/benson-lin94

WORK EXPERIENCE

Software Development Engineer Intern **September 2021 - December 2021**

Amazon, Vancouver, BC

- Designed and implemented automation as an alternative to a manual recharge process for past due invoices to lower manual effort and increase revenue
- Handled project ambiguity by meeting with relevant stakeholders to identify requirements and challenges that the project faces
- Deployed automation infrastructure and orchestration workflow using TypeScript and AWS CDK

Site Reliability Engineer Co-op **January 2021 - August 2021**

Visier Inc., Vancouver, BC

- Implemented a suite of end-to-end tests in Ruby that ran hourly against developer and production deployments through an ECS task
- Reduced monthly AWS costs by creating an automated job that deletes unused AMIs and EBS snapshots that are older than 30 days
- Utilized Terraform to tag AWS resources to enable the ability to filter resources for billing and monitoring purposes

Software Development Engineer Intern **September 2020 - December 2020**

Amazon, Vancouver, BC

- Designed and implemented a set of RESTful APIs backed by API Gateway and AWS Lambda that automates the trouble ticket resolution process
- Implemented logic to allow AWS Lambda to query databases such as DynamoDB, Elasticsearch and Redshift and to format a JSON response to serve to users
- Provisioned and deployed AWS resources using CloudFormation templates in YAML to serve as the infrastructure for the APIs
- Authored API proposal and design documents to highlight the use cases of the APIs and cost effectiveness of possible architectural solutions

Undergraduate Teaching Assistant **September 2019 - December 2019**

University of British Columbia, Vancouver, BC

- Held office hours and assisted with lectures to improve students' understanding of core Java concepts
- Coordinated labs to support students by providing feedback on assignments and personal projects

EDUCATION

University of British Columbia, Vancouver

2018 - Present

BSc, Major in Computer Science, 4th Year

PROJECTS

Digital Walk-around

January - April 2022

- Designed and implemented a fullstack application in a group setting according to specifications provided from a corporate sponsor to allow users within an organization to schedule Zoom calls and to view other users' meeting schedules

TECHNICAL SKILLS

Programming

Java, TypeScript, Python, Ruby, Bash, HTML/CSS, SQL

Software & Tools

IntelliJ, VS Code, Git, AWS, Docker, Terraform, Selenium, Unix

References Available Upon Request

To: Allie Ran, SRE Manager
From: Benson Lin, Former SRE Co-op Student
Date: August 8, 2022
Subject: Request for a Reference Letter

Dear Allie,

I hope you and the team are doing well over at Visier. I am applying to a Cloud Full Stack Developer position at Providence Healthcare. I am writing to request a reference letter from you for the application to this position.

I learned new technologies in DevOps from you and the team, and I enjoyed my time as a co-op student at Visier. You have taught me how to improve my time management, and problem solving skills. Since you were my manager, you are familiar with my work habits, and technical and interpersonal skills.

I would greatly appreciate you writing a reference letter for my application for the Cloud Full Stack Developer position at Providence Healthcare. Please contact me if you have any questions and thank you for your time.

Sincerely,

Benson Lin

To: Sanjay Kam, SDE Manager
From: Benson Lin, Former SDE Co-op Student
Date: August 8, 2022
Subject: Request for a Reference Letter

Dear Sanjay,

I hope you and the team are doing well over at Amazon. I am applying to a Cloud Full Stack Developer position at Providence Healthcare. I am writing to request a reference letter from you for the application to this position.

I learned new technologies in AWS from you and the team, and I enjoyed my time as a co-op student at Amazon. You have taught me how to improve my time management, and problem solving skills. Since you were my manager, you are familiar with my work habits, and technical and interpersonal skills. You are also familiar with my ability to design, implement and deliver a high quality application using AWS.

I would greatly appreciate you writing a reference letter for my application for the Cloud Full Stack Developer position at Providence Healthcare. Please contact me if you have any questions and thank you for your time.

Sincerely,

Benson Lin

To: Zolt Bach, SDE Manager
From: Benson Lin, Former SDE Co-op Student
Date: August 8, 2022
Subject: Request for a Reference Letter

Dear Zolt,

I hope you and the team are doing well over at Amazon. I am applying to a Cloud Full Stack Developer position at Providence Healthcare. I am writing to request a reference letter from you for the application to this position.

I learned new technologies in AWS from you and the team, and I enjoyed my time as a co-op student at Amazon. You have taught me how to improve my time management, and problem solving skills. Since you were my manager, you are familiar with my work habits, and technical and interpersonal skills. You are also familiar with my ability to design, implement and deliver a high quality application using AWS. From my time at Amazon, I displayed my ability to handle ambiguity in the requirements of a project.

I would greatly appreciate you writing a reference letter for my application for the Cloud Full Stack Developer position at Providence Healthcare. Please contact me if you have any questions and thank you for your time.

Sincerely,

Benson Lin