

Jake J. Choi

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Objective and Skills

Software Engineer | Software Developer

Specialized in System, Network, Artificial Intelligence, Machine Learning

- C, C++, CMake
- HTML5, CSS, Javascript
- Angular, Typescript
- Data Communications
- SQL (Postgres, MySQL)
- VCS (Git, SourceTree)
- Unified Modeling Language
- Java, Spring, Gradle, JUnit
- Node.js, npm, express.js
- GraphQL
- TCP/IP, Switching, Routing
- NoSQL (MongoDB)
- CI Tools (Jenkins, Travis CI)
- Object-Oriented Analysis
- Python, Pandas, Scikit
- System Prog. (Linux & *nix)
- Android Dev. (ADB, Appium)
- Tensorflow, OpenAI
- RESTful (SoupUI, Postman)
- Containerization (Docker)
- Design Patterns

Experiences

Software Developer

iClinic Systems Inc. | Vancouver, BC

Mar. 2019 – Present

- Developed and maintained an electric medical record management front-end application by using Javascript, Node.js, Typescript, Angular, Jest, and Cypress.
- Developed and maintained micro-services supporting authentication/security, permission administration, business logic, data services, and group communication for the front-end application by using Java, Spring, JUnit, Mockito, and Postgres.
- Built and maintained system infrastructure and a continuous integration/delivery environment by using VMWare ESXi, Oracle VirtualBox, Jenkins, Ansible, Bash script, Windows Powershell, and Docker.

Student Research Assistant

BCIT (Supervisor: Mirela Gutica) | Burnaby, BC

Jun. 2018 – Aug. 2018

- Performed a quantitative data analysis and multinomial logistic regression on the subject “Building Advanced Learning Technologies for Improving Minority’s Participation in STEM” by using Python, Pycharm, R, and RStudio.
- Investigated various machine learning algorithms (Logistic Regression, SVM, Random Forest, Bayesian Network, Decision Tree, Naive Bayes, Neural Network, K-Nearest Neighbor, and Adaptive Boosting) to predict possible career choices based on the favorite activities of one’s childhood.

Junior QA Automation Developer (Co-op)

Absolute Software | Vancouver, BC

May. 2017 – Dec. 2017

- Developed and maintained a Java-based end-to-end testing framework by using Java Spring, TestNG, Selenium, Appium, and Android Debug Bridge for an Android-based data security solution.
- Developed and maintained middle-tier test scripts for Restful APIs and database transactions by using MSSQL (MS SQL Server Developer), MongoDB (MongoChef), and SoupUI.
- Developed a Chrome extension that matches and highlights the elements on a page with XPath interactively to improve the productivity of web UI test automation.

Education and Training

Computer Systems Technology Diploma Program

Graduated with Distinction

(Artificial Intelligence/Machine Learning Option)

British Columbia Institute of Technology | Burnaby, BC

Cumulative GPA: 95/100

Centerprise Information Solutions Academic Award Recipient

Projects

1st Prize: Auto Insurance Claim Data Science In-Class Competition | BCIT | Burnaby, BC

- Designed and developed a custom data analysis framework to predict the future claim amount based on customer's attributes and past behaviors by using R, Python, Tensorflow, Pandas, Scikit, and XGBoost.

BambooShoot: A Web-Based Career Management Solution | BCIT | Burnaby, BC

- Designed and developed a mobile-friendly online career management system for a customer who is a communication instructor at BCIT by using Vue.js, Node.js, express.js, MongoDB, and Mongoose.

AIAbalone: Artificial Intelligence Game Playing Agent | BCIT | Burnaby, BC

- Designed and developed an Abalone game implementation and an AI game playing agent which uses various state-space search techniques such as Minimax with alpha-beta pruning, transposition caching, and move ordering in a distributed environment by using Python, Pypy, Pygame, and Thorpy.

Bitcoin Casino: Cryptocurrency Investment Simulator | BCIT | Burnaby, BC

- Developed an Android application that enables users to virtually invest in cryptocurrencies by providing real-time price indices, price history charts, and cryptocurrency news.

<https://play.google.com/store/apps/details?id=com.comp3617.finalproject>

Certifications

Cisco Certified Network Associate Routing and Switching (CCNA)

Cisco Systems, Inc. | San Jose, United States