Jake J. Choi

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Objective and Skills

Software Engineer | Software Developer
Specialized in System, Network, Artificial Intelligence, Machine Learning

○ Assembly Language (AT&T)	○ C, C++, CMake	○ Python, Pandas, Scikit
○ System Prog. (Linux & *nix)	○ Net / Socket Programming	○ Arduino Development
○ Data Communications	○ TCP/IP, Switching, Routing	○ Linux Administration
○ SQL (MSSQL, MySQL)	○ NoSQL (MongoDB)	○ Data Types (XML, JSON)
○ VCS (Git, SourceTree)	○ Virtualization (VMWare)	○ Containerization (Docker)
○ CI Tools (Jenkins, Travis CI)	○ Cloud Computing (AWS)	○ Object-Oriented Analysis
○ Agile, Scrum Framework	○ Test Automation (Selenium)	○ Bash Script Programming
○ Data Analysis (R, Python)	○ Tensorflow, OpenAI	○ Microsoft Azure ML Studio

Experiences

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 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 middle-tier test scripts for Restful APIs and database transactions by using MSSQL (MS SQL Server Developer), MongoDB (MongoShef), 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.
○ 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.

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 (Nov. 2018)

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.

Tanks on Fire: A Web-Based Real-Time Shooting Tank Game | BCIT | Burnaby, BC
○ Developed an online two-player shooting arcade tank game by using HTML, HTML5 Canvas, CSS, Javascript, and Socket.io the web socket library.

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

The Cosmic Flow: A Visual-Auditory Interpretation of Body Movement | Private Project
○ Developed an interactive real-time image-sound generator by using Processing language and a motion sensor (Microsoft Kinect) to build an art project which interprets the user's movement into an animation and improvised jazz music.

Outside Interests

BCIT Student Association Peak Leadership Program | BCIT SA | Burnaby, BC
○ Completed learning and enhancing leadership skills, professional development skills, and communication skills through workshops and hands-on activities.