

Jake J. Choi

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Summary and Skills

Software Engineer | Software Developer

Specialized in System, Network, Artificial Intelligence, Machine Learning

- Assembly Language (AT&T)
- System Programming (Linux)
- HTML5, CSS, Javascript, PHP
- Network Security Admin
- Data Analysis (R, Python)
- RESTful (SoupUI, Postman)
- VCS (Git, SourceTree)
- Testing Methodologies
- Windows Dev: Win32 API, MFC, WPF
- Data Comm/Network Programming
- TCP/IP, NAT, VPN, Switching, Routing
- MSSQL (SQL), MongoDB (NoSQL)
- Tensorflow, OpenAI Framework
- Virtualization (VMWare, Docker)
- OOP Analysis / Design Pattern
- Test Automation (TestNG, Selenium)
- C, C++, C#, Java, Python
- Unified Modeling Language
- Android Dev (ADB, Appium)
- Firewall (Sophos UTM)
- MS Azure ML Studio
- Agile, Scrum Framework
- Project MGMT. (Jira, qTest)
- Data Types (XML, JSON)

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 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 (MongoShef), and SoupUI.
- Designed and developed a load-testing (stress-testing) plan to estimate the required resources and organization of infrastructure for newly-made services by using JMeter and Fiddler
- 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.
- Designed, wrote, and executed security-oriented test plans and test case suites for the automation framework by analyzing the erratic Android system behaviors depending on various manufacturers and Android versions.

Education and Training

Computer Systems Technology Diploma Program

(Artificial Intelligence/Machine Learning Option)

British Columbia Institute of Technology | Burnaby, BC

Centerprise Information Solutions Academic Award Recipient (Nov. 2018)

Graduated with Honors

Cumulative GPA: 95/100

Bachelor of Science in Environmental Science and Ecological Engineering

Bachelor of Landscape Architecture in Environmental Design

Korea University | Seoul, South Korea

Academic Excellent Scholarship Recipient for 7 Semesters

Summa Cum Laude

Cumulative GPA: 4.24/4.50

Projects

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.

The Cosmic Flow: A Visual-Auditory Interpretation of Body Movement Project | 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.

The Cube: A Virtual Identity in an Augmented Environment Project | Private Project

- Designed and developed a physical space (a box) that recognizes a skeleton of a person and gives the user an ability to control a character in an augmented environment.

Certifications

Cisco Certified Network Associate Routing and Switching (CCNA)

Cisco Systems, Inc. | San Jose, United States

Acquired: May. 2015

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.