
SKILLS

- **Technical Skills:** C, C++, Java, MATLAB, Docker, AWS, SQL, Linux, Git, Bitbucket, Perforce, IntelliJ and Xcode.
- **Knowledge:** Object Oriented Programming, Software Development, Machine Learning and Cloud Computing.

PROFESSIONAL EXPERIENCE

Software Engineer, High 5 Games, New York, NY Mar. 2019 - Now
Java, IntelliJ, Git, Bitbucket, Perforce, Statistics and Probability

- Developed Java applications implementing slot game, gameplay features and game reels.
- Designed game math with the concepts of Statistics, Probability and Combinatorics.
- Improved game experience by simulating the gameplay millions of times to get stats.
- Participated in a software development cycle, including code integration, deployment to development environments, version control and task management from Git, Bitbucket, Perforce, IntelliJ, Gradle and JIRA.

Software Engineer, Acuity, New York, NY Aug. 2017 – Mar. 2019
C++, Java, Python, MySQL, Machine Learning, AWS and Docker

- Hosted WordPress with BackEnd infrastructure by AWS EC2/S3/RDS/Route 53/ECS, Docker and MySQL.
- Built logistic regression and four-layer neural network with synthetic attributes to analyze customer behaviors.
- Increased 30% revenue by reaching 98% accuracy in correctly providing customer solutions.

Technical Manager, Lenovo, Taipei, Taiwan Apr. 2015 - Aug. 2015

- Bundled x86 server with SAP HANA, VMware ESXi, Microsoft Hyper-V, NVIDIA GPU and MongoDB.
- Increased 20% revenue by leading workshops and offering technical compliance of Release of Proposals to win bids.
- Demonstrated SAP HANA relational database management system in 2,000 people forum to win \$3M project.
- Introduced large-scale HPC distributed system with VMware, NVIDIA and MongoDB to win \$5M project.

Application Engineer, Advantech, Taipei, Taiwan Jul. 2013 - Apr. 2014

- Solved issues of x86 embedded system regarding Linux, Windows Server, BIOS and computer hardware architecture.
- Built the system to store BIOS parameters and reach 98% accuracy in enabling computer feature with C++ and Excel.

SOFTWARE PROJECTS

ATM System Jan. 2017 - May 2017

C++ Project of Object Oriented Programming Language Course

- Developed an ATM banking system regarding inheritance, polymorphism, encapsulation between class and object.
- Implemented functions like deposit, withdrawal, balance check, transfer, PIN change and activity history.
- Utilized MVC pattern to design user interface, allowed user to input data and displayed results after querying

Integrated Database System Sep. 2016 - Dec. 2016

C++ and SQL Project of Principles of Database Systems Course

- Created tables from raw data according to entity relationship diagrams and supported with CRUD SQL functions.
- Designed front end user interface with method calls and connected to SQL server.
- Read raw data from files and showed selected results after querying SQL database.

New York Times Classification Jan. 2016 - May 2016

C++ and MATLAB Project of Machine Learning Course

- Applied Naive Bayes, K-Nearest Neighbors, Logistic Regression, Softmax Regression and Support Vector Machines.
- Built a nine-layer convolutional neural network with normalization, max pooling and dropout.
- Reached 99% accuracy in correctly classifying article.

Airline Management System Sep. 2015 - Dec. 2015

C++ Project of Data Structures and Algorithms Course

- Established the storage system for flights information with data structures like tree and hashtable.
- Initiated sorting mechanism and analyzed Big O, designing network architecture, protocols, and IP address schema.
- Optimized cache performance by choosing faster sorting solution on stable storage system.

EDUCATION

New York University, New York, NY Sep. 2015 - May 2017

M.S. in Computer Engineering

- Relevant Coursework: Machine Learning, Principles of Database Systems, Data Structures, Algorithms, Computer Architecture, Computer Networking, Operating Systems and Probability and Stochastic Processes.

National Taiwan University, Taipei, Taiwan Sep. 2006 - June 2010

B.E. in Engineering Science

- Relevant Coursework: Object Oriented Programming Language, Introduction to Computer Science, Computer Programming, Computer Graphics, Calculus, Engineering Mathematics, Electrical Engineering and Statistics.