Shang-Fu (Shawn) Hsieh

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Objective

Software Development Internship for Summer 2018

Education

University of Southern California, Los Angeles, CA — Jan. 2017 – Dec. 2018

- Master of Science, Computer Science, GPA: 3.84/4.0
- Courses: Web Technology, Algorithm, Artificial Intelligence, Operating System, Computer Network, Database

National Cheng Kung University, Tainan, Taiwan — Sep. 2008 – Jul. 2010

- Master of Science, Electrical Engineering, GPA: 4.0/4.0, Rank: 3/152
- Phi Tau Phi Honorary Membership: Awarded to top 3, out of 152 students

National Chung Cheng University, Chiayi, Taiwan — Sep. 2004 – Jul. 2008

- Bachelor of Science, Electrical Engineering, GPA: 3.48/4.0, Last-60 GPA: 4.0/4.0
- Two Presidential Awards (2007 and 2008): Awarded to top 2, out of 40 students

Technical Skills

Programming Languages: Java, C++, C, Python, JavaScript

General skills: HTML5, CSS3, ES6, PostgreSQL, MySQL

Full-Stack (MEAN): Angular 2+, Node.js, Express.js, MongoDB

Testing: Mocha, Chai

Cloud: Google Cloud Platform, AWS

Others: Git, Typescript, npm, Grunt, jQuery, Bootstrap 4, Semantic UI, Responsive Web Design, Agile Methodology

Projects

Travel and Entertainment Search: — Mar – Apr. 2018

- Designed a single-page application for searching places using Google Places and Maps API.
- Implemented by Angular 5, Node.js, Express, MongoDB (MEAN stack) and deployed in AWS

RESTful blog: https://restful-crud-blog.appspot.com/ — Mar. 2018

- Implemented a RESTful blog with CRUD by Node.js, Express, MongoDB, Semantic UI in Google Cloud

Inference Engine: finding answer for queries from a knowledge base (Language: Python) — Dec. 2017

- Using First-order logic and Resolution proof to assert new facts

The Fruit Rage: finding best move in zero-sum game with limited time (Language: Java) — Oct. 2017

- Optimized search time by implementing Mini-Max algorithm with Alpha-Beta pruning
- Boosted searching performance by designing best-move heuristic
- Beat 90% of students, reduced calculations by constrained search depth and search-tree child

Weenix Operating System (Language: C) — Jun. – Aug. 2017

- Led a team of four, designed Weenix (instructional UNIX 6 operating system)
- Created process control subsystem, virtual file subsystem, virtual memory system

Unix TCP/UDP Sockets (Language: C) — Apr. 2017

- Analyzed and established TCP and UDP sockets
- Simulated Server/Client data transferring behavior in a Google Compute Engine

Scrabble Game (Language: Java) — Apr. 2017

- Developed by object-oriented design with polymorphism and inheritance and provided unit test

Professional Experience

Shang-Fu Engineering Ltd. — Engineer — May. 2015 – Oct. 2016

- Evaluated and submitted bids for government tenders, assisted business accounting

Maxim Integrated (San Jose-based IC design company, NASDAQ: MXIM) — May. 2012 – Mar. 2015

Associated Member of Technical Staff

- Designed and developed core modules of Power Management Integrated Circuit (PMIC) for Smart Phone

Taiwan Army — Corporal — Jan. – Dec. 2011

- Led a team of 5 and responsible for high power equipment and executed military exercises