

# 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:** <http://travel-entertain-search.appspot.com/> 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