

Yi-Ming Chen

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Education

University of California, Irvine

MS in Computer Engineering

Related Course:

Artificial Intelligence, Info Retrieval, Advanced Data Engineering, Operating System, Algorithm

Sep 2017 ~ Dec 2018(expected)

Irvine, CA

GPA: 3.67/4.00

National University of Tainan

BS in Electrical Engineering

Sep 2009 ~ Jun 2013

Tainan, Taiwan

GPA: 3.96/4.00

Work Experience

Antenova

Engineer

Sep 2014 ~ Sep 2017

Taipei, Taiwan

- Individually managed and designed the software to improve 70% productivity of engineering
- Designed and developed four standard products with a continuing increase in sales
- Provided design service for more than 200 client projects which created 200,000 USD monthly revenue
- Trained and facilitated 6 engineering personnel
- Coordinated the technical support through different regions including China, Korea and Japan

Project

Magimaji.com – Online Touchstone File Viewer / Circuit Simulator

Founder

Sep 2017 ~ Present

Personal project

- Built simulation engine from scratch, Web application and service of RF circuit simulator
- Developed file viewer for Touchstone, an industrial standard file format for circuit specification
- The application appears on the **first page of Google search** with key word “touchstone file viewer”
- Designed **RESTful** APIs for touchstone file parser and electric circuit simulator on the backend
- Built interactive simulation service with **Ajax, JQuery**
- Implemented web frontend with **Bootstrap** and **ChartJS** for data visualizing service on various platforms
- Implemented with **Apache Spark** to execute the circuit optimizer in parallel and improve the scalability of system

Million Queens

Co-Developer

Nov 2017 ~ Dec 2017

AI project

- Implemented **stochastic local search** and **min-conflict** heuristic on N queen problem
- Devised a data structure to reduce search space by only picking queens that has conflicts
- Solved more than 300 million queens in 300 seconds with 12 GB memory usage and **won the first place** in a class of hundred students

Online Gallery

Developer

Nov 2017 ~ Nov 2017

Course project

- Developed an interactive web gallery on **Spring, Hibernate** framework and supported uploading, modifying and user interactions (zooming, drag&drop, etc) with **MySQL** on data processing and **PhotoSwipe, DropZone.js** to provide interactive interface

Transmission Line Calculator

Developer

Feb 2016 ~ Feb 2016

Antenova

- Developed printed circuit board simulator and implemented on **WinForm** to suggest optimal PCB layout design

GPS Evaluation Tool

Developer

Feb 2016 ~ Feb 2016

Antenova

- Implemented with **Google Map API** to visualize satellites' National Marine Electronic Association sentence

Over the Air (OTA) antenna testing system

Developer

Sep 2014 ~ Dec 2014

Antenova

- Designed the automatic measurement system on **WinForm** and controlling instrument by **GPIB/UART** interface
- Implemented the **Intermediate Data Text Format** to create first interactive antenna 3D radiation pattern in industry

Skills

Programming: Java, C#, JavaScript, Python, C++, Matlab

Tools: AWS EC2, Eclipse, Visual Studio, MySQL, Spring, Hibernate, Apache Spark, WinForm

Languages: English, Japanese (JLPT N1 Certificate), Chinese (Native)