

MICHAEL CHEN

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EDUCATION

University of California, Riverside

Bachelor of Science in Computer Engineering, GPA: 3.46/4.00

Riverside, CA

Sep 2013 - Jun 2017

EXPERIENCE

Tata Consultancy Services (Southern California Edison)

Software / Identity & Security Access Management Engineer

Rosemead, CA

July 2017 - Present

- **ITIM Crawler** (Java, ITIM, LDAP)

Proposed and initiated the development of a Java project from the ground up to crawl ITIM environments. Internal tool is primarily used to reverse look up unique user identifiers using misc user attributes. Extracted ITIM web service APIs to research abstract classes and methods for the project requirement. Worked closely with operations task workers to design the automation workflow according to the existing manual workflow.

- **Active Directory IAM PowerShell Libraries** (PowerShell, Active Directory)

Proposed and initiated the development of a set of core PowerShell libraries from the ground up to streamline IAM Active Directory bulk operational tasks, removing 90% of manual efforts.

- **Automation of User Access Data Reporting** (PowerShell)

Designed and developed a complete Standard Operating Procedure which utilizes a custom PowerShell script to consolidate and cross reference user access data across multiple data sources to ensure compliance with NERC regulations. Streamlined and automated the daily reporting process and removed 95% of manual efforts.

- **Automation of Data Compliance Communications** (Python)

Used various open source python libraries to generate stylized data reports and to send out all follow up communications. Fully automated the process and eliminated all manual work.

Institute for Information Industry

Summer Engineering Intern

Taipei, Taiwan

July 2016 - Aug 2016

- **CarQ** (Xcode, Obj-C)

Developed an iOS Q/A platform where users can troubleshoot car issues in a forum environment. Created dynamically self-sizing question card views in accordance to different device specifications and content length. Bundled together as a submodule of a car diagnostic app, CarJ.

- **AutoMD Diagnose Web Crawler** (Java)

Designed and implemented a multi-threaded tool that utilizes RESTful API services to crawl and consolidate car diagnostic data into JSON in the form of nested list objects. JSON procured is integrated with car diagnostic data gathered from universities and institutions all across Taiwan. Collaborative data functions as a CarQ knowledge resource.

National Dong Hwa University

CSIE Intern

Hualien County, Taiwan

June 2015 - Aug 2015

- **Geometric Tower Defense** (Unity, C#)

Developed a tower defense game with incremental level progression using standard geometric models. Presented at the end-of-internship research conference to peers, professors, and industry professionals.

PROJECTS

Nocturnal (HTML, jQuery, Node.js, Python)

Winter 2017

A webpage that uses heatmap overlays to illustrate the density of hospitals, providers, and census in a zipcode. Led development (team of 3) for analyzing and processing data in PySpark then storing into a Cassandra database.

Lego Elevator (C)

Fall 2016

An embedded three-level elevator system that utilizes an intelligent scheduling algorithm. Controlled by a DC stepper motor in conjunction with a photoresistor to track level changes.

UCR Craigslist (Xcode, Obj-C)

Spring 2016

An iOS application created as an abstract solution to Facebook's lack of support for marketplace groups. 4 tab navigation: create/browse posts, maps, messaging, and profile reviews. Integrated with biz.nf backend services.

SKILLS

Technologies: Active Directory, Cassandra, ITIM, Maven, PySpark, Unity, vim, VS Code, Xcode

Programming Languages: C, C#, C++, Java, Obj-C, PowerShell, Python

Spoken Languages: English, Mandarin Chinese