



www.linkedin.com/in/michael-melkonian/



github.com/MichaelMelkonian

EDUCATION

University of Southern California May 2024

Master of Science in Computer Science
GPA: TBD

Relevant Courses: Foundations of Artificial Intelligence, Web Technologies

Cal Poly Pomona May 2022

Bachelor of Science in Computer Science
GPA: 3.53

Relevant Courses:
Software Engineering - Data Structures and Advanced Algorithms - Machine Learning - Numerical Methods - Formal Languages & Automata - Database Systems - Artificial Intelligence - Social Computing - Mobile Application Development

SKILLS

Libraries (**Java**: lang, io, util, swing)

/Pkg's (**Python**: matplotlib, numpy,

/Fwk's: BeautifulSoup, scikit-learn,

TensorFlow, scipy, Flask)

(**C++**: iostream, iomanip)

(**Dart**: Scaffold, flutter_html, flutter_https, Starflut)

(**JS**: node, express, React, Node.js)

(**HTML/CSS**: Bootstrap4, SCSS)

DB's: (**postgresql**)

(**SQLite**)

(**MongoDB**)

Tools & Software: Visual Studio, Eclipse, Android Studio, JIRA, MARS, GitHub, Excel, Microsoft Word, FIGMA, AutoDesk, VirtualBox, AWS

CERTIFICATIONS

Amazon Web Services (AWS) Sept. 2022

AWS Associate Developer

ORGANIZATIONS

Viterbi Graduate Student Association - Senator

Attended weekly meetings to confer with other computer science senators in creating academic and career oriented events for graduate students.

MAXIMIZING ENGINEERING POTENTIAL (MEP)

Regularly attended biweekly workshops to learn about graduate programs, resume building, and internship opportunities.

SCIENCE EDUCATIONAL ENHANCEMENT SERVICES (SEES)

As a member of the STEM mentoring program, I provided general personal and professional guidance to under-represented undergraduate minorities.

AWARDS

Andre Bullock Engineering Scholarship May 2021

Award: \$2,375

Received the Andre Bullock Engineering Scholarship (Dean's Scholarship) for excellence in coursework as an engineering undergraduate.

PROFESSIONAL/RESEARCH EXPERIENCE

Cloud Computing Consultant

Capgemini

- Leveraged AWS micro-services in the likes of Lambda functions, Elastic Beanstalk, and EC2 Instances to produce accurate business readings to client (NBC Universal)
- Create and implement precise management plans for every project, with attention to transparent communication at all levels
- Determine and develop user requirements for systems in production, to ensure maximum usability

Research Assistant

Cyber Adaptive Learning Systems Laboratory

September 2021-May 2022

Pomona, CA

- Assisted Dr. Ericsson Marin in collecting deep/dark-web links to send through cyberinfrastructure pipeline

- Designed and developing a darkweb crawler using BeautifulSoup Python package in collecting and storing relevant cyberthreat forum and marketplace data
- Implemented supervised learning models, support vector machines (SVM) and logistic-regression (LOG-REG) to create the classification component in the pipeline to categorize cyberthreat-associated forums and marketplaces
- Leveraged social network analysis (SNA) and decision trees to model information diffusion relative to hacker communities to investigate influential and topological patterns

Simulation Developer

Northrop Grumman Collaboration Project

November 2020-March 2021

Pomona, CA

- Tested simulation software (i.e. Webots, V-REP, and GAZEBO) to use the most optimal results for our final simulation
- Based on the amount of simplicity of the software and amount of open-source code WEBOTS provided, it was decided to proceed with this software in applying towards both UGV and UAV
- Tested and developed simulation of Unmanned Ground Vehicle with C++ alongside open-source code to functionalize infrared sensors and individual wheel motors

PROJECTS

Ophsuns - Android App

December 2021 - January 2022

Los Angeles, CA

Personal Project

- Created responsive Android application where users can calculate potential profits/losses with specified stock ticker
- Developed through Android Studio IDE using Dart to build front-end and backend of application with implementation of Scaffold and MaterialApp
- Designed web-scraping program within application to collect stock-related data: stock price and daily price fluctuation percentage
- Upon deployment, application has attracted over 50 downloads in less than a 2-week time frame

PolyPathway.com

July 2021-August 2021

Los Angeles, CA

Academic Project

- Lead a team of 5 to develop a student campus navigation web application that provides students an easier and more precise path to their designated on-campus location
- Used Jira to distribute work to individuals of the group according to their unique competencies in order to increase workflow efficiency throughout a 5 week development period
- PolyPathway works with Google Maps API in storing unique coordinates for both building structures and notable landmarks to allow the user to input concise destination entries