

Kourosh Arfania

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EDUCATION

University of Southern California, Viterbi School of Engineering and Marshall School of Business
Computer Science/Business Administration

Los Angeles, CA
05/2025

Honors: Trustee Scholar, Viterbi Undergraduate Fellow

GPA: 3.93

Programs: Grand Challenges Scholar Program, W.V.T. Rusch Undergraduate Engineering Honors Program

Relevant Coursework: Accelerated Programming in Python, Discrete Methods in Computer Science, Data Structures, Algorithms, Software Development, Computer Systems, Operating Systems, Software Engineering, Swift Programming

EXPERIENCE

The Cigna Group

Bloomfield, CT

Full Stack Engineering Intern

May 2023-Present

- **Upgrading an internal data processing application** from version 3.x.x to 5.x.x, encompassing nearly 500 infrastructure, deployment, and web architecture changes such as framework transitions, RESTful API development, and SQL query generation
- **Building compliant AWS Architectures** in S3, Lambda, Glue, Aurora, and Neptune for data storage and database interfacing
- **Serving as back-end lead for Innovations Project**, creating a full-stack web application to create medical questionnaires

Syntiant Corporation

Irvine, CA

Engineering Intern

July 2022-September 2022

- **Created, packaged, and deployed a Python CLI** application with Marshmallow, Boto3, Click, Keras, PyMongo, and yt-dlp to scrape video/audio content for voice recognition model training and populate a NoSQL database with metadata and S3 pointers
- **Wrote CI/CD pipeline scripts in Jenkins**, consulting with senior leadership on integration and deployment standards

Papaya Payments

Los Angeles, CA

Web Automation Engineering Intern

October 2021-March 2022

- **Automated bill payments for 30 partners**, increasing robustness and reducing physical labor hours by 12%
- **Bots written in JavaScript and Selenium**, leveraging Testim services for primary development
- **Worked in an Agile environment** with ticketing and project tracking using Jira Software

LEADERSHIP AND INVOLVEMENT

Shift SC

Los Angeles, CA

Executive Board, Vice President of Communications & External Affairs

September 2021-May 2023

- **Managed a team of 10** to effectively promote the organization through social media efforts, a weekly newsletter, and LinkedIn
- **Primary point of contact** between Shift SC and third parties such as the Viterbi School of Engineering and LookUp
- **Created the club's website** using Jekyll and GitHub Pages, with most work done in pure HTML and CSS
- **Consulted with the Viterbi School of Engineering** to introduce their 'Engineering in Society' program to the student body, enabling our team to present relevant AI, sustainability, and ethics modules to faculty and classrooms alike

PROJECTS

roomiez

Spring 2023

- **Full-stack web application** that assists users in managing household responsibilities through a visualized aggregate task board
- **Leverages a sophisticated Spring back-end** with controller, service, and repository layers and Maven dependencies
- **Dynamic front-end** implementing AJAX methodology, Bootstrap, React, and react-router-dom
- **Deployed through AWS** Elastic Beanstalk and S3, using a cloud RDS based in MySQL Community

philakit

Winter 2023

- **An integrated user-authenticated web application**, chrome extension, and data processing platform that aims to improve consumer conscientiousness through prompted ESG reports, user stories, and suggested local non-profit involvements
- **Back-end functionality written in Python**, handling API routing via Flask and communicating with Firebase
- **Front-end written in React**, leveraging react-router-dom, Axios, and react-iframe to dynamically visualize data

SKILLS AND INTERESTS

- Languages: English (Fluent), Farsi (Conversational), Mandarin (Basic)
- Technical Skills: C++, Python (Flask), Java (Spring), JavaScript, SQL, MongoDB, Linux OS, AWS, Docker, React, Jenkins
- Interests: Environmentalism, Outreach, Running | Back-End Software Development, Web Applications