ANCHAL SRIVASTAVA

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OBJECTIVE

Computer Science undergraduate with 2+ years of experience in full-stack development, AI/ML, and digital design seeking internships in software engineering, AI/ML engineering, cybersecurity, VLSI design and verification, and related domains.

EDUCATION

B.S. in Computer Engineering and Computer Science
University of Southern California, Viterbi School of Engineering   Expected May 2026

<u>Current Coursework</u>: Intro to Information Security, Computer Systems Organization, Intro to Operating Systems, Probability Theory
<u>Completed Course Work</u>: Data Structures and Algorithms, Intro to Embedded Systems, Intro to Algorithms and Theory of Computing, Distributed Systems and the Internet of Things, Intro to Web Development, Principles of Software Development, Introduction to Digital Circuits, Introduction to Computer Networks

Adrian C. Wilcox High School, Santa Clara, CA – GPA: 4.00   Aug 2018-May 2022

SKILLS

Technical Skills	Microsoft Suite, CAD (Fusion 360), Adobe Creative Cloud, Arduino, Raspberry Pi (with GrovePi), Command Terminal, Docker, Git, React, Node.js, FPGA, Modelsim/Questasim, Basic Digital Design and Verification
Programming Languages	C++, C, HTML/CSS, Java, Python, JavaScript, Verilog

PROJECTS

Home Security Application – December 2023
Distributed Systems Final Project – USC Viterbi
- Developed a home security system model integrating burglary and fire detection mechanisms
- Utilized sensors including GrovePi ultrasonic sensor, GrovePi temperature & humidity sensor, and laptop webcam
- Employed three nodes: Laptop, Azure Virtual Machine, and Raspberry Pi and implemented MQTT protocol for communication between nodes
- Utilized a web page and buzzer for alerts and notifications and implemented facial recognition for burglary detection using the face_recognition library in Python

To-do List App with AWS Amplify and React – June 2024
- Learned React with AWS Amplify integration and Amazon DynamoDB, a real time database

Film Quest Website – April 2024
Principles of Software Development Final Project – USC Viterbi
- Created a full-stack movie search and ratings website with Java, MySQL, JavaScript, and HTML/CSS where you can search movies in a database and leave ratings and reviews on a movie.
  - Consists of sign-in and sign-up services, where users can view their profile and reviews, they have written
- Implemented Java Servlets and MySQL connectors to implemented backend communication with database

RESEARCH

Lab: Laboratory for Design of Medical and Analytical Devices (MADLAB under USC's Biomedical Engineering Department): August 2022 – May 2023
o Project: Smart health management: A point-of-care diagnostic tool for vitamin-D detection
o Developed graphene-based electrodes by laser-engraving for electrochemical detection of ascorbic acid and characterized laser engraved electrodes through cyclic voltammetry and differential pulse voltammetry scans using Potentiostats
Lab: Khan Lab (part of USC Institute for Technology and Medical Systems (ITEMS)): August 2023 – May 2024
o Development of electrochemical transistors for sensing analytes in bodily fluids - focus on detecting neurotransmitters

EXTRACURRICULARS

CURAM Magazine Web Dev Team - Undergraduate magazine organization addressing medically relevant issues, education, research, and art
- Primarily involved in website development and design with HTML/CSS for frontend, ensuring responsive and user-friendly interface, and developing a web application for newsletter sign-up using Firebase for backend database and service
  - Deploy web app with Firebase Hosting and implemented form submission handling with JavaScript to capture user data and store in the Firebase Realtime Database

CERTIFICATIONS AND AWARDS

- CURVE Fellowship - Center for Undergraduate Research in Viterbi Engineering, USC   August 2022
- Introduction to Artificial Intelligence (AI) by IBM   August 2024