

BENJAMIN SOMMA

CONTACT

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Davis, CA

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[WEBSITE HERE]

SKILLS

Languages:

- C++ (Advanced)
- Python (Advanced)
- C (Advanced)
- R (Advanced)
- PowerShell (Advanced)
- Linux (Advanced)
- MATLAB (Intermediate)
- Assembly x86 (Intermediate)
- HTML/CSS (Intermediate)
- Swift (Intermediate)
- SQL (Intermediate)
- JavaScript (Intermediate)
- Rust (Intermediate)
- Prolog (Intermediate)
- Lisp (Intermediate)

Frameworks:

- Flask
- IOS
- Django
- LDAP3
- Prometheus
- Grafana

Leadership:

- Founding Member of UC Davis Computer Science Project Club
- UC Davis Computer Science Club
- Theta Chi Standards Board (judicial affairs)
- Theta Chi Yearly Philanthropy Event

Programs:

- LaTeX
- Microsoft Office Suite
- Adobe Illustrator
- Fusion 360

EDUCATION

University of California, Davis

B.S. in Computer Science

Davis, CA

Graduated March 2022

- **Minor:** Technology Management
- **Major GPA:** 3.65/4.0

RELEVANT WORK EXPERIENCE

University of California, Davis

Davis, CA

Computer Science for Kids

September 2019 – May 2020

- Taught children ages 7 through 13 about introductory concepts of computer science and programming by means of creating unique MIT Scratch applications

Risk and Safety Solutions

Davis, CA

Business Technical Support Analyst

February 2020 – Present

- Utilized Python to create scripts to automate biweekly and monthly analytical reports
- Frequently updated public knowledge articles of common operating system issues to help clients resolve issues quickly and efficiently for applications distributed by Risk and Safety Solutions
- Used HTML, CSS, and JavaScript to routinely improve the University of California Office of the President websites

Tesla Motors

Fremont, CA

IT Ops Field Support and Automation

June 2021 – September 2021

- Utilized Tesla APIs, Active Directory, LDAP3, Python, and PowerShell to create a script that would run daily on a Jenkins Server to generate, update, and delete dynamic distribution lists for every Tesla Site
- Initiated a project for future interns that integrated InfluxDB and Solar Winds with Prometheus and Grafana in order to display critical health checks on core IT infrastructure services for Tesla structures across all of Northern America
- Utilized Active Directory, JAMF, SCCM, and Windows Server Environment to troubleshoot issues
- Assembled and fully configured IT Racks comprised of Cisco vEdges, Juniper Switches, and Opengears using JunosOS and documentation

PROJECTS

User-Level Thread Library

Davis, CA

- Developed a library implementation of a large subset of functions provided in the standard POSIX Thread API.
- Interfacing for applications to create threads, schedule threads for execution in a round-robin system via FIFO, a preemptive interrupt based scheduler, and enable synchronization of threads via joining other threads
- *Utilized: C*

Image Tracking

Davis, CA

- Developed a rotating recognition color/shape recognition software by means of pairing Arduino and MATLAB to have a camera track a ball in real time
- *Utilized: MATLAB, C++, Arduino*

Cheapest Gas Nearby

Santa Rosa, CA

- Developed a web-based application that upon receiving the zip code of an individual, displays the top three cheapest gas option in their area
- *Utilized: HTML, CSS, Django, Python*