BENJAMIN SOMMA

CONTACT

bhsomma@gmail.com
(707) 978-0292
Davis, CA
linkedin.com/in/bhsomma
bhsomma.github.io

SKILLS

Languages:

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

Frameworks & Libraries:

- Django
- Flask
- Grafana
- LDAP3
- Prometheus
- TensorFlow

Programs:

- Fusion 360
- LaTeX
- Microsoft Office Suite

Leadership:

- Founding Member of UC Davis Computer Science Project Club
- Leading Member of Theta Chi Standards Board (Judicial Affairs Division)
- Member of UC Davis Computer Science Club

EDUCATION

University of California, Davis — **Davis, CA**

B.S. in Computer Science — *September 2018 – March 2022*

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

RELEVANT WORK EXPERIENCE

IT Field Support & Automation - IT Operations intern — **Fremont, CA**

Tesla Motors — *June 2021 – September 2021*

- Utilized Tesla APIs, Active Directory, LDAP3, Python, and PowerShell to create a daily script to run on a Jenkins server to generate, update, and delete dynamic distribution lists for every Tesla Center across the globe
- Developed a project for future interns and employees that integrated InfluxDB and Solar Winds with Prometheus and Grafana to display critical health checks on core IT infrastructure services for Tesla structures across North America
- Assembled and fully configured IT Racks comprised of Cisco vEdges, Juniper Switches, and Opengears using Junos OS and documentation
- Used JAMF, SCCM, and Windows Server Environment to assist in management, data storage, and software distribution of Tesla Applications

Business Technical Support Analyst — **Davis, CA**

Risk and Safety Solutions — *February 2020 – Present*

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

Mentor — **Davis, CA**

Computer Science for Kids — *September 2019 – May 2020*

- Taught children ages 7 through 14 about introductory concepts of computer science and programming by developing unique MIT Scratch applications to create lesson plans and modules

PROJECTS

Image Tracking — **Davis, CA**

Utilized: *MATLAB, C++, Arduino* — *October 2021*

- Developed a 360° rotating color and shape recognition software by pairing Arduino and MATLAB to have a camera track a blue ball in real time

User-Level Thread Library — **Davis, CA**

Utilized: C — *January 2021*

- Developed a library implementation of a large subset of functions provided in the standard POSIX Thread API
- Created an interface for applications to create threads, schedule them for execution in a round-robin system using a FIFO queue via a preemptive interrupt-based scheduler, and enable synchronization of threads by conjoining them together

Cheapest Gas Nearby — **Santa Rosa, CA**

Utilized: HTML, CSS, Django, Python — *March 2020*

- Developed a website that takes a user's zip code or address and calculates the top three cheapest gas options in the area based off of travel distance, possible traffic, and the price of gas at the location