

Ryland Sepic

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Education

University of California, Davis

Davis, CA

B.S. Computer Science and Engineering

June 2020

- GPA: 3.6/4.0, Graduated with honors

Relevant Experience

Academic Assistance and Tutoring Centers, UC Davis

Davis, CA

Engineering Tutor

October 2019–June 2020

- Recruited by the AATC to tutor classical and modern physics, electrical engineering, and computer science.
- Tutored individuals and groups, in person and remotely. Prepared practice problems and learning software.

Special Study for Advanced Undergraduates, UC Davis

Davis, CA

Selected Undergraduate

January 2020–March 2020

- Designed and implemented an algorithm that used a phone camera to recognize a name from a bank card.
- Presented and demonstrated my research and algorithm to faculty in cybersecurity as well as my colleagues.

UC Davis Computer Science Department

Davis, CA

Research Intern

June 2018–April 2019

- Worked alongside faculty and grad students studying the security of a Science DMZ network.
- Used Bro/Zeek and Snort to collect and analyze network data to be used for experiments.

Projects

Senior Design Project (Python, JavaScript):

- Used Mask R-CNN and Google VisionAPI to recognize logos and analyze photos.
- Designed and hosted a full stack web-based application.
- Presented our six month project at the UC Davis Engineering Design Showcase.

End-to-end Encrypted Payment Application (Swift):

- Used Stripe API, Firebase, and encryption libraries to design an encrypted payment application.
- Wrote an encryption API, implemented a Diffie-Hellman key exchange protocol, and managed data privacy.
- Worked remotely in a group of four, using Slack, Github, and Zoom to coordinate.

Additional Experience

Clover Sonoma Farms

Petaluma, CA

Temporary Laboratory Technician

November 2020–February 2021

- Prepared and analyzed laboratory samples for measuring any microbial presence.

Moving With Grace

Woodland, CA

Lead

May 2019–November 2019

- Lead moving crews, managed supplies and equipment, customer relations, and handled payments.

UC Davis Police Department

Davis, CA

Aggie Host Security

September 2018–June 2019

- Public outreach and security at events, drove for the Safe Ride service, and patrolled university property.

UC Davis Student Housing

Davis, CA

Resident Advisor

April 2016–June 2018

- Conflict mediation, mental health, event planning, public outreach, and crisis response.

Skills

Software: C/C++, Git, HTML/CSS, Linux, Python, Swift, XCode

Technical: L^AT_EX, Microsoft Office (Excel, PowerPoint, Word), Slack

Honors & Awards

Dean's List: Spring 2016, Fall 2017, Winter 2018, Spring 2018, Fall 2018, Spring 2020

Scholarships: Full academic scholarship to UC Davis