

# Ethan Wilson

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## EDUCATION

*University of California, Davis* - Applied Mathematics, B.S., GPA: 3.37

Aug 2021 - Dec 2023

Relevant Courses: ODE's, Real, Numerical, and Complex Analysis series, O.O.P. in C++, Minds, Brains, and Computers

*University of San Diego* - Studying Computer Science, GPA: 3.83

Aug 2019 - Jun 2021

Relevant Courses: Computer Systems, Programming Abstractions and Methodologies, Advanced Computational Problem Modeling

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## RELEVANT SKILLS

- Programming Languages: Java, Python, JavaScript, C++, IOS Swift
  - Linux Environments and Bash Shell Scripting
  - Computer IT software support in MacOS, some Windows
  - HTML, CSS, BEM CSS
  - Machine learning with Tensorflow 2.0, NLPs, Jupyter Notebook
  - Calculus of Variations, Statistics and Probability, Set Theory, Logic, Analysis Series
  - MATLAB, Excel, SQL, R
  - Additional tools familiar with: GitHub, Microsoft Office, Collabratory, Autocad, Jira
  - Kubernetes, Helm, Grafana, AWS, Azure, Prometheus, LogCLI (3 months)
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## TECH RELATED PROJECTS/EXPERIENCE

**Most Recent Project:** *Stock Market Prediction AI:* Uses data analysis and scrapping Stock Market data. Utilizes TensorFlow 2.0 to train a sequential model. Built using Python including topics of linear and logistic regression, neural networks, NLP's, and data cleansing and processing.

*Vessel Traffic System:* Application design project on MATLAB utilizing a local database of ships and connected with ThinkSpeak, an IoT analytics platform, UI focused

*CSR Summer Programming Camp at Stanford:* Learned how to create IOS applications using Swift, created messaging app

*Log Analysis:* Developed a log analysis system that autonomously scans extensive log files in Loki, seeking out error patterns using regex.

*Arduino and Raspberry Pi Engineering Project:* Built and Designed remote controlled car using an Arduino, breadboard, C code, and AutoCad

*Cache Simulator in C:* Built a simulator for three types of cache memories, direct, 2-way associative, and fully associative

*Other Programs:* Programmed the Snake Game, various card games with and without visuals, a Movie Database Searcher, and some Tkinter GUI programs in Python and class/object oriented programs in Java, Built a shell in C that executed commands in a terminal

*Clubs and Organizations:* Member of the Association for Computing Machinery, AI Student Collective, UC Davis Computer Science and Cybersecurity, USD Math Club, and High School Computer Science Club President

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## WORK AND LEADERSHIP EXPERIENCE

**Backend Software Engineer and Site Reliability Intern,** *Bluescape* - Redwood City, CA

Jun 2023 - Sept 2023

- Worked on project focused on optimizing the deployment and management of microservices using Kubernetes and Helm for streamlined package management and Bash scripting for automation.
- Acquired hands on experience in a wide range of technologies including AWS, Azure, Microsoft Office 365, Grafana, Loki, Prometheus, Python VS Code, Kubernetes, GitHub, regular expressions, LogCli, Linux, and SQL.
- Strengthened my coding skills in JavaScript and Python, allowing me to contribute effectively towards ongoing projects.
- Collaborated with cross-functional teams, including SRE, infrastructure, QA, and security teams utilizing Jira and Confluence.
- Participated in a company cybersecurity summit, enhancing my understanding of online security and data protection using AWS.
- Undertook a side project involving an AI image generator, aligning with my interest in AI and machine learning.
- Leveraged Grafana and Loki to analyze company logs, utilizing regex and Linux commands to identify and resolve recurring errors.
- Directly fixed Grafana dashboards, improving data representation and analytics tools for various engineering teams.
- Gained insights into the company's IT infrastructure and systems setup, ensuring a smooth transition into the software engineering role along with better understanding of GitHub and version control tools.

**Information Technology Intern,** *Redshift Business Networks and Forge Architecture* - Novato, CA

Jul 2020 - Aug 2020

- Gained valuable experience in computer and technology support through a paid internship
  - Assisted owner in providing computer support for roughly forty clients in the San Francisco area
  - Demonstrated technical aptitude by assisting in the IT support office for Redshift Networks and Forge
  - Assisted IT manager network setup and server maintenance in new building
  - Worked with Microsoft Office 365 troubleshooting and repairing office setup and computers throughout office
  - Responsible for archiving and record keeping, as well as filing and documentation
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## INTEREST, HOBBIES, AND ADDITIONAL WORK

- Aquatic Specialist in Marin County, UC Davis Campus Rec Recorder, Monk's Kettle Expo Staff
- Summer Counselor for Camp Kesem, Mathematics Tutor, Swim Instructor, Basketball and Football Coach
- Passion for gaming, chess, and member of Sigma Nu Fraternity at UC Davis
- Rock climbing, weightlifting, hiking, golf, guitar