

GLENN WYSEN

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EDUCATION

University of California, Berkeley
BA Computer Science and Astrophysics *GPA: 3.6*

Berkeley, CA
Aug 2017 - May 2021

WORK EXPERIENCE

Amazon Web Services (AWS)
Software Engineer - Key Management Service (KMS)

San Francisco, CA
September 2022 - December 2023

- Led an internal tooling project to automate log analysis for engineers, reducing average ticket resolution time by 80%.
- Onboarded KMS's host management fleet to AWS CloudWatch, leading to 2x faster issue resolution through metric-driven dashboards and alarms.
- Decoupled KMS's internal cryptographic service into a control plane, data plane, and log plane. This improved core cryptographic operation latency by 20% and allowed for parallel development at scale while maintaining FIPS 140-3 level 3 certification.
- Served as a backend on-call engineer, ensuring the health of the worldwide KMS Hardware Security Module fleet. Improved my skills of working under pressure to diagnose and resolve critical incidents, minimizing downtime and customer impact.

Next Insurance
Software Engineer

Palo Alto, CA
July 2021 - July 2022

- Enhanced screening logic in Kotlin to prevent automatic policy declines based on recent felonies. These efforts balanced focusing on data-driven decision-making with real world critical analysis of issues that disproportionately affect people of color.
- Developed a Slackbot using Selenium for web scraping, saving 50 hours/week for the Insurance Compliance Team.
- Leveraged Python, Pandas, and Selenium to automate document retrieval and storage for over 5,000 insurance forms every week.
- Utilized SQL and Tableau to manage and analyze data, responding to over 200 requests from state departments of insurance.

SkyPortal
Undergraduate Software Developer

Berkeley, CA
Aug 2019 - Dec 2019

- Implemented Java database storage for thumbnail images, improving data management.
- Revamped the frontend user interface using HTML/CSS, enhancing the website's aesthetics.
- Used the frontend skills obtained to independently build and maintain a personal website: glennwysen.com

Air Force Research Lab
Solar Physics Lab Assistant

Albuquerque, NM
May 2018 - Aug 2018

- Conducted research on solar irradiance variation and its effects on Thermosphere/Ionosphere models.
- Analyzed solar irradiance data from NASA satellites using IDL, contributing to a more accurate atmosphere model for Low Earth Orbit (LEO) satellite safety.

PROJECTS

Personal Website *JavaScript/HTML/CSS*

<https://glennwysen.com>

- Developed a personal website to showcase my projects and share about my personal life, enhancing my online presence.

SKILLS

Programming Languages: Python, Java, Kotlin, SQL, Bash, JavaScript/HTML/CSS, C++
Libraries and Interfaces: UNIX/Linux, Pandas, Jupyter (Lab/Notebook), NumPy, Matplotlib
Tools: Git, Jira, Tableau, AWS Services (KMS, CloudWatch, S3, EC2, IAM)