

ABHINAV ALLAM

5427 Matthew Terrace, Fremont, CA (US CITIZEN)

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SKILLS

Programming Languages: Python, Kotlin, Java, Javascript, Scala, C/C++, Typescript

Operating Systems: Linux, Android, Mac, & Windows

Developer Tools: RVC models, Stable Diffusion models, Shell Scripting, Google Cloud Platform

Frameworks: Gradle, Maven, Apache Spark, PyTorch

Databases: SQLite3, SQL, Amazon Athena

Software & Data Analytics Tools: Pandas Lib, Numpy, Postman, VS Code, Android Studio

Interpersonal Skills : Agile, Scrum, Multitasking

EDUCATION

University of California, Riverside

Bachelor of Science in Computer Science

September 2020 – June 2024

Riverside, California

EXPERIENCE

Support Vectors: AI Intern

August 2024 – Current

AI/ML Student

Fremont, CA

- Completed course in Artificial Intelligence prior to internship, specializing in neural networks, large language models, and generative AI.
- Developed expertise in advanced architectures, including **CNNs**, **RNNs**, **Transformers**, **GANs**, and **Diffusion Models**.
- Optimized AI models through back-propagation and regularization techniques in real-world coding projects.

Cequence Security, Inc

June 2023 – September 2023

Data Science Intern

Sunnyvale, CA

- Operationalized Time-Delta model enhancing Cequence security's bot detection product capabilities.
- Incorporated Python and shell commands which aggregate XML test results into automated daily reports process.
- Enhanced bot detection by identifying **18%** more 'low-and-slow' malicious bots
- Improved overall detection by **12%** using **Panda's** and Cequence Security's Python data-science framework + **Amazon Athena**.

Celona, Inc.

June 2022 – September 2022

App Development Intern

Cupertino, CA

- Developed Android Mobile Application that streamlined Celona 5G Access Point installations, reducing setup time by **24%**.
- App facilitates Access Point configuration and antenna tuning. Used **Kotlin** and **Android Studio** to interface with Celona's 5G Enterprise platform.
- Designed and implemented authentication, configuration, and central navigation pages, with test cases
- Added data retrieval and configuration using each access points QR code + barcode.

Cequence Security, Inc.

June 2021 – September 2021

Software Intern

Sunnyvale, CA

- Developed a framework for Cequence Security's Bot Defense platform to simplify data extraction configuration.
- Application generates all possible expressions for a given Swagger spec, providing a list of options for the user.
- This eliminated need for users writing complex JSON pointer expressions, **halving** setup time.
- Created NodeJS server to process Swagger API specs and provide JSON pointer expressions for JSON and XML payloads.
- Created a React UI/UX for easy expression selection.

PROJECTS

Cequence Hackathon 2023 | Java, C/C++, LLM

August 2023

- Secured second place overall by integrating an AI-driven chatbot into Cequence Security's UAP, enhancing user experience and functionality.
- Improved the usability of Cequence Security's UAP platform with a conversational interface.
- Simplified user interaction using LLM's backend capabilities to configure settings in Cequence Security's UAP, eliminating manual menu navigation.