ABHINAV ALLAM

5427 Matthew Terrace, Fremont, CA (US CITIZEN)

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SKILLS

Programming & Development: Python, Kotlin, Java, JavaScript, Scala, TypeScript, C/C++, Android Development, Firebase, Node.js, Flask, Spring Boot, RESTful APIs, Microservices

Cloud, DevOps, & Tools: Google Cloud Platform (GCP), Docker, Kubernetes, Git, Postman, Gradle, Maven, IDE's, Agile, Kanban, Scrum

Databases & Analytics: SQL, SQLite3, Elasticsearch, Amazon Athena, Pandas, NumPy, RVC Models, Stable Diffusion Models, Neural Networks, PyTorch

RESUME SUMMARY

Dynamic, detail-oriented professional with proven ability to excel under pressure through strong problem-solving, troubleshooting, and communication. Passionate about continuous learning, improving myself, and proactively contributing in collaborative environments.

EDUCATION

University of California, Riverside   **Sept 2020 – June 2024**
B.Sc. in Computer Science   *Riverside, CA*

Continuing Education: Support Vectors   **Aug 2024 – Jan 2025**
AI Research Intern   *Fremont, CA*
- Completed advanced coursework to master **neural networks**, **LLMs**, and **generative AI**, via rigorous academic training.
- Built expertise in **CNNs**, **RNNs**, **Transformers**, **GANs**, and **Diffusion Models** via hands-on projects and labs.
- Optimized models to boost training efficiency and accuracy, via **back-propagation** and **regularization** techniques.

EXPERIENCE

Celona, Inc.   **April 2025 – Current**
Software Development Engineer   *Cupertino, CA*
- Utilized **Kotlin (Android) and Swift (iOS)** with **geofencing APIs** to develop advanced mobile applications, thereby **enabling precise location-based data services and enhanced user experience** for enterprise clients.
- Leveraged **Celona's internal APIs** and explored **SIM and 5G-related technologies** to implement robust connectivity solutions, resulting in **optimized network performance** and streamlined device management within private mobile networks.

Healthy Vibes   **April 2024 – Current**
Member of Technical Staff   *Remote*
- Developed a **headless Android app** to manage devices and achieve robust **Linux sync**, via integration with **Zoll devices**.
- Automated **ASP.NET API** calls and built Python scripts for real-time integration testing, via custom scripting on **Google Cloud Platform**.
- Created an **Agentic model prototype** to auto-generate and test code, via integration with the **Claude 3.5 Haiku** API.

Support Vectors   **November 2024 – January 2025**
AI Research Intern   *Fremont, CA*
- Utilized **Python, Langchain, and LlamaIndex** to construct and refine multiple **Retrieval-Augmented Generation (RAG) models**, thereby **enhancing information retrieval accuracy and the depth of contextual understanding** for complex query processing.
- Employed **Python and the Anthropic API** to advance the development of **Staff Agentic Reasoning models**, leading to improved autonomous decision-making capabilities and more efficient automation of complex analytical tasks   .

Cequence Security, Inc.   **June 2023 – September 2023**
Data Science Intern   *Sunnyvale, CA*
- Developed and deployed a **Time-Delta model** to detect subtle bot patterns, via **PyTorch** with **CUDA**.
- Engineered preprocessing and feature extraction to lift accuracy from **18%** to **32%**, via **Pandas**, **NumPy**, cross-validation, and hyperparameter tuning.
- Automated daily reporting by compiling **XML** test results and reducing manual effort by **50%**, via streamlined scripting and **Google Cloud** integration.

Celona, Inc.   **June 2022 – September 2022**
App Development Intern   *Cupertino, CA*
- Developed an **Android app** to streamline **Celona 5G Access Point installs** and cut setup time by **24%**, via **Kotlin** and **Android Studio**.
- Conducted requirements analysis, drafted **UML diagrams**, and integrated access point settings with secure **OAuth2 authentication**, via **REST API** integration.
- Added a **QR/barcode scanning** feature to automate data capture and boost productivity by **23%**, via the **ZXing** library.

Stealth Security, Inc.   **June 2021 – September 2021**
Software Intern   *Sunnyvale, CA*
- Developed a **JavaScript app** to auto-extract data from **Swagger specs** and support **Bot Defense**, via custom parsing logic.
- Automated **JSON pointer generation** to achieve a **12%** faster setup time for new clients, via precise algorithmic extraction.
- Built a **React UI** and adopted agile practices to streamline configuration, via **NodeJS REST APIs**, **Git**, and **JIRA**.

PROJECTS AND DEVELOPMENT

Rosehack @ UCR 2024 | *Google BERT, Python, Machine Learning*   **April 2024**
- Developed **EQUALITY EYE** to detect hate speech and secure **first place** (Social Impact), via AI-driven analysis.
- Managed data collection, cleaning, feature extraction, and training to achieve high accuracy, via curated **Reddit datasets** and **Google's BERT**.
- Deployed a **browser extension** for real-time Twitter analysis and refined the system to **94%** accuracy, via user feedback and A/B testing.

Cequence Hackathon 2023 | *Java, C/C++, LLM*   **August 2023**
- Developed an **AI chatbot** to simplify user interactions and secure **second place**, via integration with Cequence's **UAP Platform**.
- Researched and implemented **NLP techniques** to build a conversational interface, via leveraging **LLM backends**.
- Prototyped in **Java** and **C/C++** and refined the solution to streamline navigation and boost efficiency, via iterative testing and targeted improvements.