Ali Khani

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EDUCATION

University of California, Berkeley Berkeley, CA
Bachelor's in Computer Science, Minor in Data Science May 2025

- **Coursework:** Data Structures, Algorithms, Computer Architecture, Data Science, Probability, Databases, Computer Security, AI, Machine Learning, Networking*, Operating Systems*.

SKILLS

- **Languages:** Java, Python, JavaScript, Golang, C/C++, SQL, HTML, CSS, YAML, TypeScript
- **Libraries:** React, Bootstrap, Scikit-learn, NumPy, Pandas, Matplotlib, Plotly, TensorFlow
- **AI/ML/LLM:** LangChain, HuggingFaceEmbeddings, GPT-4o, sklearn, TensorFlow, PyTorch
- **DevOps:** Git, GitHub, GitLab CI, Node, Vim, Shell, Linux, Docker, Kubernetes, Rancher, Jira
- **Security & Tools:** Semgrep Code, SAST, SCA, Wiz, Gem, IntelliJ IDE, VSCode
- **Cloud Platforms:** AWS (VPC, EC2, IAM, CloudFormation, S3, Security Groups), GCP

EXPERIENCE

Software Engineering Intern San Ramon, CA
Five9 - Information Security May 2024 - Present

- Designed YAML scripts in GitLab CI to automate CI/CD pipelines into Semgrep for SAST/SCA.
- Triaged critical vulnerability findings via Semgrep Code across all Product Engineering codebases.
- Utilized Rancher for effective Kubernetes cluster management to ensure deployment efficiency.
- Leveraged Wiz to monitor & secure cloud infrastructure, triage issues, & ensure compliance.
- Conducted research on DialogFlow and Text-to-Speech to determine IAM policy best practices.

Teaching Assistant, Data Structures (CS61B) Berkeley, CA
University of California, Berkeley EECS Aug 2022 - Aug 2023

- Taught discussion & lab sections of 40+ students each in Berkeley's largest class (1800+ students).
- Created project presentations, API guides, & Git guide as resources for student projects and HWs.
- Resolved issues for Git workflow, IntelliJ configuration & debugging, and automated testing.

PROJECTS

Fivey — Python, LangChain, GPT-4 *Jun 2024 - Aug 2024*

- Built a chatbot on LangChain to query Confluence data via HuggingFaceEmbeddings & GPT-4.
- Leveraged Streamlit UI to improve accessibility for employees querying internal documentation.
- Ensured easy integration and deployment via Docker within the Five9's company infrastructure.

Dropbox — Go *Feb 2024 - Apr 2024*

- Designed a secure file-sharing system in Go emulating Dropbox, incorporating cryptographic functions for user authentication and secure operations.
- Produced a comprehensive peer-reviewed design document, outlining architectural and security measures, with rigorous testing and development cycles for robust system implementation.

Gitlet — Java *Jun 2023 - Jul 2023*

- Created version-control system emulating Git with commit, merge, and branching functionalities.
- Designed efficient snapshot storage & history tracking, incorporating SHA-1 hashes for content ID.
- Developed a serialized persistence model for state retention, emphasizing CLI argument validation.

RookieDB — Java *Jan 2024 - May 2024*

- Led development of database with core functionalities like B+ tree indexing & query optimization.
- Implemented concurrency control and recovery system following ARIES protocol for data integrity.
- Extended capabilities with NoSQL interface, showcasing adaptability and technical leadership in database design.