Krish Jignesh Patel

San Jose, California • 669-212-1152 • patelkrish0518@gmail.com • linkedin.com/in/krish-jignesh

EXPERIENCE & PROJECTS

Software Automation Engineering Intern- 2024 – Present
Analog Devices Inc. (ADI)
- Devised an innovative automation strategy for electrical devices, incorporating both wired and wireless microprocessor communication; achieved a substantial reduction in manual testing efforts, saving the team an average of 20 hours weekly.
- Designed and trained neural networks to automate device tester programs, utilizing TensorFlow, Keras, PyTorch, and Flask.

UCLA HiLab Undergraduate Researcher- 2024– Present
UCLA Samueli School of Engineering (Professor Yang Zhang)
- Employed C# and Unity with Oculus Quest VR Headset to advance XR Citizenship research, enabling multi-user interactions in a 3D mesh environment.
- Integrated real-time geolocation features into XR environments, providing seamless access to vital information during disaster scenarios; identified and addressed the top three challenges in virtual site navigation for emergency response.

Solutions Architecture Internship Online Program- 2024
Amazon Web Services (AWS)
- Designed simple and scalable hosting architectures based on AWS services for clients experiencing significant growth and slow response times; utilized Elastic Beanstalk, CodePipeline, RDS, Route 53, S3, etc
- Described my proposed architecture in plain language ensuring my clients understood how it works and how costs will be calculated for it; decreased webapp downtimes by 40+% on average

Software Engineering Internship Online Program- 2024
Goldman Sachs
- Completed a job simulation as a Goldman Sachs governance analyst responsible for assessing companies' IT security and suggesting improvements.
- Identified companies' outdated password hashing algorithm by cracking passwords using Hashcat.
- Wrote memos summarizing a range of proposed uplifts to increase the company's level of password protection 10x such as extending minimum password length and using a dedicated hashing algorithm.

Pingo, IntelliTrip, and Vera (Hackathon Projects)- 2023-2024
Product and Backend Developer
- Implemented backend routes for all features of Pingo, a social media app where users engage in picture-based bingo prompts and share with friends; reduced code repetitiveness by 50% when calling in frontend
- Implemented Node.js, React Native, Postman (for route testing), and NLP models for prompt generation.
- Created an AI-powered itinerary web app offering detailed daily guides based on user preferences, including restaurants and tourist attractions; reduces user's travel planning by at least 25% due to customizability of travel plan
- Gamified plant-identification app featuring multi-user compatibility and interactive flora discovery(over 30,000 species).
- Utilized Flask, Cohere API, Python, JavaScript, Express.js, HTML, and CSS.

Emerging Tech Entrepreneurship Program- 2019-2022
San Jose City College
- Earned certification in various Computer Information Systems courses, including MITx 6.0.1 (Introduction to Python), UC Berkeley DATA08 (Foundations of Data Science with Python), SJCC CS 084 (Introduction to Java), CIS 054 (Introduction to C and C++), BUS 068 (Small Business Management), and CIS 108 (Internet of Things with Renesas & Microfacturing Institutes).

EDUCATION

UCLA **,** Los Angeles, CA- 2022-Present
Bachelor's in Computer Science and Engineering
- Awards: Dean's List (2022-24) (awarded to top 15%), UCLA Introductory Rockets Certification, IEEE MicroMouse Certification, ACM Hack Best Overall Project 2022, Senior Standing(175+ units)

SKILLS

- **Programming Languages:** Python, Java, C#, JavaScript, HTML, CSS
- **Technologies & Frameworks:** TensorFlow, Keras, PyTorch, Flask, Node.js, React Native, Unity, AWS, Hashcat
- **Areas of Expertise:** Data Structures and Algorithm Design, Operating Systems, AI/ML, Neural Networks, Deep Learning, Computer Architecture, Software Construction, Networking, Logic Systems Design, Digital System Design, Solution Architecture Diagrams, Password Cryptography