

Irtiza Khan

US Citizen
Palo Alto, CA

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EDUCATION

- **California State University, East Bay** Hayward, CA
Bachelor of Science in Computer Science; GPA: 3.65 (Cum Laude & Dean's List) Apr 2021 – Dec 2022
- **Glendale Community College** Glendale, CA
Associate of Science in Mathematics; GPA: 3.75 Apr 2018 – Apr 2021

EXPERIENCE

- **Citi Bank** Palo Alto, CA
Bank Branch Associate Apr 2023 – Present
Technologies: NBS (CRUD Transaction System), Eclipse (KYC System), Salesforce
 - Facilitated cross-market transactions exceeding \$1,000,000 with in-house technologies and documentation.
 - Effectively communicated and collaborated with cross-functional teams, including customer service, compliance, and management, to resolve technical issues regarding clients' financial transactions.
- **Formation (Professional Fellowship)** Remote
Software Engineering Fellow Jun 2022 – Present
Technologies: JavaScript, ReactJS, NodeJS, Python, Git
 - Worked under big-tech software engineers to design large-scale systems, efficient algorithms, and robust software.
 - Shipped 5-8 production-ready features and bug fixes for user access control to a large code base.
 - Reduced 15% of redundant functions by refactoring the code base with proper ReactJS state management.
 - Improved cost-efficiency by up to 40% by rate-limiting RESTful API calls and compressing data streams using GZIP.
- **NASA Jet Propulsion Laboratory** Pasadena, CA
Scholar Nov 2019 – Jan 2020
Technologies: Python, MicroPython
 - Modelled a 3D Mars rover for a research paper, leading to an on-site program of 40 scholars out of 2000 applicants.
 - Competed among 5 teams to build a mock Mars rover to roam unsurveyed terrain and collect rock samples at Caltech's JPL (Jet Propulsion Laboratory).
 - Took ownership over the mock Mars rover's entire code base, including features such as dead-reckoning navigation.
 - Prevented total project failure by implementing emergency maneuver protocols that were successfully triggered.
 - Awarded 'Most Valuable Person' award for impactful contribution to the team's success.

PROJECTS

- **OpenAI Hackathon (Emotionally Intelligent LLM Plugin)** San Francisco, CA
Software Engineer Apr 2023
Technologies: JavaScript, NodeJS, ExpressJS, Python, Flask, YAML, Bash, Git
 - Integrated emotional intelligence into ChatGPT by tailoring the model's responses with contextual data extracted from modalities like facial expressions.
 - Locally analyzed facial expressions from a real-time stream using the MobileNet-SSD model (15m parameters).
 - Reduced development time and 50% of calls to OpenAI by setting up automation tools and an intermediary server.
 - Finished as finalists in 5th place out of 60 teams and 400 contestants.
- **Capstone Project (Enterprise Chat Application)** Hayward, CA
Undergraduate Student Feb 2022 – May 2022
Technologies: Java, JUnit, JSwing, Sockets, Threads, Serialization, Git
 - Created requirement documents, design documents, and sprint timelines by collaborating with the team and client.
 - Built and exposed core functionalities for socket networking and chat UI to integrate with external systems.
 - Streamlined development and reduced 30% of code by abstracting code into easy-to-use libraries for the entire team.
 - Performed continuous unit/integration/system tests using an automated test suite for the project life cycle.
- **Visual Music Genre Classifier** Hayward, CA
Undergraduate Student Feb 2022 – May 2022
Technologies: Python, Tensorflow, Keras, Git
 - Implemented ETL processes to visualize 20,000+ scraped songs as 3D spectrograms to train over a CNN model.
 - Outperformed reference model by +3% accuracy, serving as a showcase for future deep learning classes.

SKILLS & LEADERSHIP

- **Programming Languages:** JavaScript, HTML, CSS, Java, Python, C++, SQL, Bash
- **Frameworks & Tools:** ReactJS, NodeJS, ExpressJS, Flask, Keras, Tensorflow, JUnit, Git, Linux, AWS
- **Leadership:** President of Media Lab (led Snapchat geofilter project, published seasonal magazines, & designed posters)