

PUSHKAR TALWALKAR

(602) 804-9024 | ptalwalk@asu.edu | [linkedin.com/in/pushkar-talwalkar](https://www.linkedin.com/in/pushkar-talwalkar) | github.com/pstalwalkar7

EDUCATION

Arizona State University

Masters' in Computer Science

Tempe, AZ

August 2024 – Present

International Institute of Information Technology - Hyderabad (IIIT-H)

Bachelor of Technology in Computer Science Engineering - CGPA: 7.72

Hyderabad, India

August 2018 – May 2022

EXPERIENCE

Software Development Engineer (Full-Stack Engineer)

Visa Inc.

June 2022 - June 2024

Bangalore, India

- Designed and implemented Privacy Portals (30K+ LoC), drove global privacy compliance with GDPR & other privacy policies.
- Refactored the entire backend from NodeJS to Spring Boot (Java) (20K+ LoC) in just 3 months, boosting performance and scalability.
- Led accessibility enhancements, achieving 100% ADA & WCAG compliance for privacy portals.
- Automated release testing using Cypress, reducing manual testing efforts by 70%.
- Developed 2 proprietary Generative AI POCs, showcasing innovative internal applications of LLMs.
- Resolved over 100 critical bugs, improving backend reliability and maintainability.

Research and Development Intern

Eigenlytics Data Solutions

May 2021 - June 2021

Remote

- Engineered a state-of-the-art OCR system for financial documents, achieving 90% classification accuracy for printed/handwritten text.
- Optimized Convolutional Autoencoders to remove 91% of grid lines from text.
- Generated synthetic datasets with 10K+ images to enhance OCR training, boosting model performance by 50%.
- Collaborated with a team of 7 researchers from various technical backgrounds to successfully complete the project.

PROJECTS

Learning App For Kids with Autism | NodeJS, Express, MySQL, Agile Dev.

January 2022 - May 2022

- Created a scheduling & progress-tracking app for 250+ neurodiverse kids, connecting them to 30+ therapists.
- Built and tested robust RESTful APIs in an Agile environment, improving therapy session coordination.
- Delivered analytics features that streamlined progress tracking and report generation.

Financial Document Summariser | Python, Flask, Docker

August 2021 - December 2021

- Built a NLP-based tool to summarize complex documents - reducing document review time by 50% for users.
- Developed a 4000+ LoC software leveraging NLP / IRE techniques, ML & Deep Learning.
- Implemented a customizable summary feature, leveraging machine learning and reader personas.

Fingerprint Classification System | Python, Scikit-learn, Git

October 2020 - December 2020

- Extracted HOG features & trained a 1 vs 1 SVM to classify fingerprint images (index, thumb, etc.).
- Achieved accuracy of 65% using Support Vector Machines; 75% using Neural Networks.
- Performed a wide variety of morphological operations to further enhance results.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C/C++, SQL, Bash, Erlang, Arduino

Frameworks/Libraries: ReactJS, NodeJS, Spring Boot, Flask, Django, Cypress, FastAPI, PyTorch, Scikit-learn

Tools: Git, Docker, Kubernetes, Jenkins, IntelliJ, Visual Studio, AWS Cloud

Databases: MySQL, PostgreSQL, MongoDB, Redis

Others: RESTful APIs, GraphQL, Agile/Scrum

ACHIEVEMENTS

- US Chess Federation: Recipient of the "Candidate Master" title.
- Ensured seamless execution of 5 key events for Visa's first Privacy Month.
- Teaching Assistant Associate @ IIIT-H, for two semesters - guiding over 60 students.
- Represented ASU at Pan-American Chess Competition 2025.
- Chess Club Coordinator @ IIIT-H. Represented Qatar @ CBSE Chess Nationals 2017.