Avaneesh Khandekar

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EDUCATION

University of Florida   Gainesville, FL
Master of Science in Computer Science (GPA: 3.94 / 4.00)   *August 2023 - May 2025*

Savitribai Phule Pune University   Pune, India
Bachelor of Engineering in Computer Engineering (GPA: 8.78 / 10.00)   *August 2016 - May 2020*

SKILLS SUMMARY

- **Languages:** Python, Java, C++, TypeScript, JavaScript, SQL, HTML, CSS
- **Frameworks:** Angular, Node.js, Lanngchain, Spring Boot, Micro-services, Web Development, NoSQL, Cucumber, Flask
- **Tools:** GIT, Bitbucket, Bamboo CI/CD, Jira, Swagger, Splunk, Honeycomb, SonarQube, PagerDuty, Confluence
- **Platforms:** PowerApps, UiPath, AWS, Windows, Linux

EXPERIENCE

Citizens Property Insurance Corporation   Jacksonville, FL
Information Technology Intern   *June 2024 – Present*
- ○ Developing a custom Retrieval Augmented Generation (RAG) Q&A chatbot to provide insights on the organization's financial and budget data, incorporating NL2SQL to reduce time spent on financial data analysis
- ○ Created internal apps and automated business processes with PowerApps and PowerAutomate

Tata Consultancy Services Ltd.   Pune, India
Systems Engineer   *August 2020 – June 2023*
- ○ Worked as a Full Stack Developer for the Vanguard Group
- ○ Developed REST micro-services and UI applications hosted on AWS to replace legacy systems with faster software solutions. Worked as the interim technical lead on this project
- ○ Created an event-driven notification system using Lambdas and SNS notifiers, reducing missed appointments by 80% through real-time and reminder SMS notifications for client scheduling
- ○ Built an ETL solution within AWS to extract data from a mainframe server and seamlessly transform it, automatically generating tasks in MS Dynamics CRM
- ○ Implemented multi-region cloud contingency for applications, ensuring seamless disaster recovery and resiliency without downtime during outages
- ○ Developed a PII data masking library for automatic JSON log masking in web services
- ○ Wrote behavior-driven testing automation scripts for web services and UI applications for e2e and integration testing
- ○ Conducted training sessions for new hires on Java, AWS, Angular, Agile, Kanban technologies and business practices

Symphony Technologies Pvt. Ltd.   Pune, India
Project Intern   *July 2019 – April 2020*
- ○ Developed a defect detection system for fuse box assembly using color-based identification, replacing manual inspection to lower operating costs and streamline quality control
- ○ Used TensorFlow and Faster RCNN models for Image Processing, employing a two-step Neural Network to detect improper fuse box configurations in images, videos, and live feeds. Improved model efficiency and performance via dataset creation, augmentation, and fine-tuning
- ○ Built a GUI desktop application, packaging a model for user-friendly use. Incorporated business needs by enabling PDF report generation with detailed fault detection results, charts, total error rate, and most frequent errors for auditing

PROJECTS

- **Customer Churn Prediction**: ⧉
  - ○ Developed various predictive churn models that identify the steps and stages of customer churn using IBM's Telecom Data for training. The models can raise awareness and provide quantifiable metrics to help in customer retention efforts
- **Loan Approval Prediction**: ⧉
  - ○ Developed machine learning models that predict applicants' loan eligibility based on historical data from previous grants and demographic data
- **Resume Builder and Data Management System**: ⧉
  - ○ Developed a desktop application for generating organized resumes from questionnaires, storing student data in SQLite with role-based access for students and administrators

ACHIEVEMENTS & CERTIFICATIONS

- **AWS Certified Developer Associate**: ⧉
- **Received 5 Awards**: Three Star Awards, one Applause Award and one Appreciation Certificate for Excellence at **Tata Consultancy Services** for being a key team member

PUBLICATIONS

- **Detection of defective and non-defective fuse configurations of the fuse boxes used in wiring harnesses in automobiles with deep learning Issue 4, Volume 7, JETIR, 2020**: ⧉
- **Detection of Chronic Obstructive Pulmonary Disease using Convolutional Neural Networks: A Survey Issue 4, Volume 6, JETIR, 2019**: ⧉