Yash Bhandare

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EXPERIENCE

Graduate Teaching Assistant & Instructor - Purdue University   Aug 2023 - May 2024
- GTA for "Intro to Comp. Sci. 1 and 2" courses and Lecturer for "Computers in Society" course.
- Tutored 80+ students in OOP, Data Structures, Algorithms, Java, JavaFX, UI/UX, Good Coding Practices.

Software Engineer - Avalara   May 2020 - July 2022
- Developed 50+ REST APIs in Express.js with TypeScript and Node.js impacting all major functionalities.
- Deployed terraform infrastructure on AWS like Lambdas, Step Functions, API Gateways, SQS, SNS, S3.
- Created and maintained 10+ SQL databases in docker as well as AWS RDS and handled Gitlab CI/CD YAMLs.
- Scrum master for 1yr orchestrating code-reviews, sprint plans, standups resulting in 35% increase in team velocity.
- Was team security champion for 2 quarters maintaining AWS IAM architecture (CMKs, ACLs, RBAC).
- Handled JIRA tickets with Python3 and Linux automation shell scripts to improve ticket queue sizes by 90%.

Data Scientist - Metalbrain Technologies Pvt. Ltd   May 2019 - May 2020
- Developed a novel approach providing unbiased rating to stock market analysts based on historical performance.
- Implemented Naive Bayes Classifier, data scraping using Selenium, data mining (clustering, K-Means) and custom ETL pipeline with a MySQL backend served on a Node.js API deployed on Azure Cloud.
- **SMART: Stock Market Analyst Rating Technique Using Naive Bayes Classifier** – IEEE INCET 2020.

Fairlinx (FsmPro) - Software Development Intern   July 2018 - Sep 2018
- Collaborated on a coding automation tool with Qt framework in C++, FSMPro currently offers a solution to convert state machines into code combining design, development, and documentation process into one.
- Executed implementation and testing of a UI with 20+ functionalities to draw and manipulate state machines.

TECHNICAL SKILLS

- **DevOps & Tools:** AWS, GCP, Azure, Docker, Kubernetes, Gitlab CI/CD, Jenkins, Terraform, Tableau, Power BI, Grafana, Prometheus, Sumologic, Whitesource, Jira, GitHub, Data Mining, Latex , NoSQL, Firebase.
- **Languages:** Python, JavaScript, TypeScript, Java, C#, C, C++, SQL, Go, HTML, YAML, Shell Scripting, R.
- **Development & Frameworks:** OOP, Design Patterns, Software Architecture, Microservices, REST APIs, Web Development (React, Node.js, Express.js), Agile, Scrum Master, TDD, OAuth, AppSec, MySQL, GenAI.
- **Other Skills:** Git, AI/ML, Deep Learning, TensorFlow, PyTorch, Scikit, Pandas, NumPy, Jupyter.

ACADEMIC PROJECTS & RESEARCH PUBLICATIONS

- **Hyperparameter tuning using simulated annealing and genetic algorithms** – Coded 2 novel solutions for NP-hard search problem of hyperparameter optimization using metaheuristic algorithms. Publication pending.
- **Translate, transcribe and subtitle using WhisperAI** – Real time translation and transcription project based on OpenAI's WhisperAI NLP model. Awarded best course project for Applications of Deep Learning course.
- **Weather Prediction App** – Used LSTM model to predict temperature using historic data. Conducted extensive data cleaning, model evaluations and selection and created an application working off the results of the model.
- **AI-Powered Image Transformation using GANs** – An academic research project using GANs for image-to-image translation tasks specifically sketch-to-image and style transfer using Pandas, PyTorch and Deep CNNs.
- **Salary Predictor** – Trained a random forest model to predict salaries based on user demographics using salary data from the past 3 years. Deployed the model's pickle via a Flask API backend and hosted on AWS.

CERTIFICATIONS

AWS Certified Cloud Practitioner, Certified Scrum Master, Python3, Node.js, Data Governance, Tableau, GAN.

EDUCATION

Purdue University   Aug 2022 - May 2024
MS, Computer Science (4.00/4.00 GPA)

Savitribai Phule Pune University   Aug 2016 - Jan 2020
BE, Computer Science (8.41/10.00GPA)