Yash Bhandare

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EDUCATION

Purdue University   Aug 2022 - Dec 2023
MS, Computer Science, 4.00/4.00 GPA   *Fort Wayne, IN*
Relevant Coursework: ML, Deep Learning, Software Project Management, Software Engineering

Savitribai Phule Pune University   Aug 2016 - Jan 2020
BE, Computer Science, 8.41/10.00 GPA   *Pune, India*
Relevant Coursework: OOP, Design and Analysis of Algorithms, Data Structures, Operating Systems, AI/ML

WORK HISTORY

Avalara   May 2020 - July 2022
Software Developer   *Pune, India*
- Developed 50+ REST APIs in the Express.Js framework in a TypeScript and Node.js backend impacting all customer facing functionalities. Also helped migrate legacy JavaScript code into TypeScript.
- Designed and maintained 10+ SQL databases in docker as well as AWS RDS and handled related business logic.
- Spearheaded the Shared Services team as scrum master for 1 year and security champion for 2 quarters.
- Deployed infrastructure with terraform code - API gateways, Lambdas, CMKs, S3 buckets, EC2 and in highly compliant AWS cloud infrastructure.
- Managed APIs, salesforce records, Grafana dashboards, Prometheus data collection for real time monitoring of 20000+ customers' data and automated frequent customer asks to reduce ticket queue sizes by 90%.
- Collaborated in core engineering team creating tools and business logic for clients as well as for enabling cross-team coordination internally. E.g.: connected more than 5 teams to salesforce data with contract bound APIs.

Fairlinx (FsmPro)   July 2018 - Sep 2018
Software Development Intern   *Pune, India*
- Worked on a coding automation tool in the Qt framework in C++, converting flowcharts into Embedded C code to be used in control systems.
- Engineered and tested a UI with 20+ functionalities to draw and edit flowcharts.
- Singlehandedly developed core dynamic functionalities for the UI of the FsmPro product.

Metalbrain Technologies Pvt. Ltd   Aug 2019 - May 2020
Data Science Intern   *Pune, India*
- Devised a novel approach to provide an unbiased rating to stock market analysts based on historical recommendations given by analysts.
- Trained a Naive Bayes Classifier coded from scratch and performed Data Scraping, Data Mining, K-Means and custom business logic with a MySQL database served on a Node.js API.
- Presented an open access research paper based on original research in the IEEE INCET 2020 conference.
- Executed an end-to-end system with 3 years of stock market data and web-scraped more than 22000 recommendations given by Stock Market Analysts to give a rating to more than 500 individual Stock Analysts.

PROMINENT PUBLICATIONS

Y. Bhandare, S. Bharsawade, D. Nayyar, O. Phadtare and D. Gore, "SMART: Stock Market Analyst Rating Technique Using Naive Bayes Classifier," 2020 International Conference for Emerging Technology (INCET), 2020, pp. 1-4, doi: 10.1109/INCET49848.2020.9154002.
https://ieeexplore.ieee.org/document/9154002

TECHNICAL SKILLS

- **Programming Languages:** TypeScript, JavaScript, C#, Python, Terraform, C, C++, CSS/HTML, Java, SQL
- **Tools:** AWS, Docker, Git, Grafana, Prometheus, Gitlab, Jira, Confluence, Selenium, Whitesource, Express.js
- **Other Skills:** Team Leadership, Scrum Master, Communication, Agile Methodologies, Digital Marketing, Software Testing, Gitlab CI/CD pipelines, REST APIs, Firebase, NoSQL, MySQL.

CERTIFICATIONS AND AWARDS

- **AWS Certified Cloud Practitioner:** AWS.
- **Avalara Certified Scrum Lead:** Avalara.
- **MENSA Lifetime Member:** MENSA High IQ society.
- **Competent Communicator:** Toastmasters International.
- **Competent Leader:** Toastmasters International.
- **Python, NodeJS, Express.js:** LinkedIn Learning.

PROMINENT PROJECTS

- **Undergraduate Capstone project -** Implemented an unbiased rating system to calculate ratings for stock market analysts based on historical recommendations from scratch. The project has a flask frontend connected to a python and SQL backend and ran with a 92% accurate Naïve Bayes Classifier trained with data generated after web scraping, data cleaning and conditioning. Built an algorithm to analyze historical performance into specific measures, classify into a specific score for analysts and K-means algorithm to conform resulting classification into a 5 star rating.
- **MCOE Today Android App –** College News application operating over firebase backend aimed at eradicating college notice boards. Briefly deployed in the Modern College of Engineering with more than 100 concurrent users.
- **Whisper AI based real time translation –** Won best course project award in the Applications of Deep Learning Course at Purdue University. Constructed a system to translate and transcribe across languages in real time and add English subtitles to any video uploaded over React.Js based UI and processed in Whisper AI's NLP Model for implementation.
- **Raspberry Pi and Arduino Surveillance Robot –** Arduino and Raspberry Pi controlled robot car engineered in penultimate year of undergraduate studies with 4 wheeled chassis. Raspberry Pi as brains of robot and Arduino to drive higher current wheel-driving motors. A RasPi Camera module acted as a video capture device. Could be controlled remotely over Wi-Fi from any laptop it was configured with and relay a live video feed to user's device.

SOCIAL EXPERIENCE

Toastmasters Club of Pune   Jan 2018 - June 2018
Secretary   *Pune, India*
- Served as the Secretary of the Toastmasters Club of Pune (oldest community club in Pune).
- Took minutes of every meeting of club, handled interclub relations, created presentations, and onboarded new members. Also, in charge of organizing and conducting meetings of executive committee of club.
- Skills : Communication, Leadership, Professional Etiquette, Transcription, Presentation Mastery.

Responsible Charity   Jan 2019 - Feb 2020
Mentoring and Tutoring Volunteer Intern   *Pune, India*
- Tutored underprivileged children from ages 7-25 in formal curriculums in 3 languages.
- Mentored a group of 5 mentees on breaking the Cycle-of-Poverty by formal education and employment.
- Taught curriculums of subjects ranging from Biology, Chemistry, Physics to Accounting, English and Statistics.
- Skills : Leadership, Tutoring, Social Responsibility, Conflict Management, Philanthropy