Bidur (Jay) Pantha

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SUMMARY

Recent graduate with a Master's degree in Computer and Information Technology and a strong interest in Engineering and Analytics. Proficient in core software development and analytics principles, with the ability to learn new tools quickly and efficiently. Detail-oriented and organized individual that can work in a fast-paced environment. Experienced diverse profession roles, with excellent written and verbal communication skills. Strong work ethic and passion for achieving impactful results.

SKILLS

Tools: Docker, GitHub, Tableau, Excel
Languages: Python, JavaScript, Java, C
Web: Node, Express, React, Flask, FastAPI
Data: AWS, SQL, MongoDB, Neo4j, ETL, Pandas, Sklearn NumPy, Seaborn, Matplotlib, PySpark, PyTorch
IDE/Environments: Datalore, Jupyter, Visual Studio Code, InteliJ IDEA, Eclipse, PyCharm, DataGrip, Compass

EDUCATION

University of Pennsylvania, School of Engineering and Applied Science — Philadelphia, PA
Masters: Computer and Information Technology — Jan 2022 – May 2023
Relevant Courses: Software Development, Data Structures and Software Design, Algorithms and Computation, Database and Info Systems, Artificial Intelligence, Big Data Analytics, Computer Systems and Programming, Discrete Math

Arizona State University, School of Molecular and Life Sciences — Tempe, AZ
Bachelors: Biomedical Sciences and Biochemistry (Minor) — Aug 2017 – May 2021
Relevant Courses: Statistics, Calculus, Research Methods, Physics, Honors Thesis

SELECTED PROJECTS

GPT Chatroom (in progress) — July 2023

- Built a backend server with Node, Express, and Python microservice to handle requests and generate responses using the OpenAI API
- Utilized Docker for seamless deployment, scalability, and easy integration of the backend server into diverse environments, reducing deployment overhead
- Performed comprehensive unit, end-to-end, and API testing

Attrition Predictive Analytics — May 2023

- Utilized IBM HR Analytics Employee Attrition and Performance dataset to gain insights into factors contributing to employee attrition
- Machine learning models, including Random Forest, Logistic Regression, and Neural Networks, were used to identify significant factors contributing to employee attrition
- End goal was to provide data-driven insights to HR departments and management to improve employee retention and reduce turnover costs. We were able to achieve an accuracy of 91.8% in predicting the probability of employee voluntary resignation with Random Forest

NBA Reference — May 2023

- Collaborated with a team of four, using agile methodologies, to develop a dynamic full-stack web application, providing users with advanced NBA team and player statistics analysis
- Utilized entity-relationship diagrams to plan and design database
- Employed React.js and Material UI for front-end development, with Node and Express powering the server-side, and an MySQL database supporting complex queries which were optimized to run 95% faster

EXPERIENCE

School of Engineering, University of Pennsylvania — Philadelphia, PA
Teaching Assistant/Academic Coach (Part-Time) — Aug 2022 - Present

- Provide support to students in the *Intro to Software Development* course for the CIT program at Penn, helping them grasp key concepts and enhancing their software development skills in Python and Java
- Contributed to the growth of incoming master's students and helped ease the transition into a new program

CodePath — Remote
Training Program (Part-Time) — Aug 2022 – Dec 2022

- Gained expertise in data structures and algorithms from industry professionals in tech
- Engaged in collaborative pair programming sessions with fellow students, tackling complex algorithmic coding challenges to sharpen problem-solving and teamwork skills
- Learned industry best practices in software engineering including but not limited to: Agile Methodology, Code Reviews, Code Quality

Essential Scribe — Phoenix, AZ
Medical Scribe (Part-Time) — June 2021 – Jan 2022

- Provided real time medical documentation for physicians at Ironwood Cancer and Research Centers. Organized patient charts in an electronic medical record (EMR) by recording laboratory, imaging, and pathology reports with detailed accuracy
- Improved physician workflow to allow providers to spend less time documenting and 50% more time with patients