Vishwesh Pillai

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EDUCATION

Master of Science in Computer Science   Expected May 2024
Arizona State University, Tempe, AZ   4.0/4.0 GPA
Coursework: Foundations of Algorithms, Artificial Intelligence, Data Mining, Data Visualization

BTech in Electronics and Communication Engineering   May 2022
Visvesvaraya National Institute of Technology, Nagpur, India   8.61/10 GPA
Coursework: Computer Networks, Deep Learning, Object-oriented programming, Digital Logic Design

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, MySQL, HTML, CSS
Frameworks: Django, React.js, Pytest, Spring Boot, Apache POI, JUnit, Tensorflow, Keras
Tech: Git, AWS, Docker, Jira, Confluence, VSCode, Pycharm, Bitbucket, Linux, XML

PROFESSIONAL EXPERIENCE

Google Summer Of Code 2023, Remote: Open-Source Developer   June 2023 - Present
- Part of the Zulip Terminal team, using **Python** and technologies like **Urwid** and **Pytest**.
- Leveraged the **git rebase workflow** methodology to optimize project development processes, resulting in reduced code conflicts and enhanced codebase maintainability.
- Optimized the algorithm which handles **unread message cycling**, enhancing user experience by improving overall responsiveness.
- Enhanced the user interface by integrating with the **Zulip REST API**, enabling real-time updates and dynamic display of data like profile and stream subscription information, improving the application's usability.
- Extensively covered all code written by unit tests, written using **Pytest** and **Mocker**.

JP Morgan Chase & Co, Mumbai, India: Software Engineering Intern   May 2021 - July 2021
- Developed a new internal automation tool, written in **Java** using the **Apache POI API**, to parse Excel sheets to **XML** files used in **Liquibase**, which reduced developer hours by **48x**.
- Designed a developer-facing interface (front-end + back-end) for the automation tool leveraging **Spring Boot** and **React**, enhancing user experience and efficiency.
- Worked with a team of **10+** developers using **JIRA** and **Slack**.
- Wrote unit tests for all **API** endpoints using **JUnit** and extensively documented the tool using **Confluence**.

EXTRACURRICULAR EXPERIENCE

Student Portal, Visvesvaraya National Institute Of Technology   May 2020 - April 2022
- Implemented a new "**Sign in with LinkedIn**" feature using the **LinkedIn API** to seamlessly integrate a student's academic profile with their professional profile.
- Developed "**Project Corner**", a feature connecting students with professors for academic projects. Used a **Django** backend and **React** frontend, ensuring a seamless user interface and robust functionality.
- Managed and added features to the deployed website (studentportal.live/home) on **Linux** infrastructure.

RELEVANT PROJECTS

Drone Delivery Planning System, *Hackathon Project*   Summer 2021
   Created a **Django**-based software solution employing **genetic** algorithms, written in **Python**, to strategically schedule drone deliveries for essential packages. Garnered significant recognition by securing **3rd place** in the **Hackon with Amazon** hackathon (India). (github.com/theViz343/Drone-Delivery-Management)

Uncertainty-Aware Food Image Classification, *Research Project*   Spring 2022
   Devised a prediction scheme employing flat and hierarchical classification strategies, integrating epistemic uncertainty analysis for dynamic classifier switching. Published research in **IEEE Xplore**. (ieeexplore.ieee.org/abstract/document/9840761).