Purnima Katiyar

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PROFESSIONAL EXPERIENCE (1.5+ YRS)

Software Engineer (Backend) | *Award Certificate*   Sep 2024 – Present

Abstrabit Technologies Pvt Ltd (Bengaluru, Karnataka- Remote) - *Python, Django, ReactJs, AWS, Docker*

- Designed and implemented a **job manager** portal that streamlined client tracking and improved job status monitoring, resulting in a **30%** reduction in manual tracking errors.
- Engineered a robust architecture using **AWS services**, including **EC2** and **RDS**, and created workflows for automated **server deployments**.
- Identified and resolved critical bugs, enhancing the application's performance by **40%** and improving reliability for end-users.
- Integrated **Stripe** as a **payment gateway** to support secure and seamless **transactions** and payment processing smoothly.
- Developed automated and **event-triggered** email notifications to notify users of specified activities.
- Implemented **RBAC** - Role Based Access Control to enhance application security and deliver personalized features tailored to individual user roles.
- Worked upon **audit tool management system** to make it more enhanced and easy to use application for auditing and generating reports.
- Developed **REST APIs** for mentoring based application where users can connect with mentors and get specific guidance of which the mentors has expertise.
- Worked upon domain setup for deployment of applications on **AWS Amplify** so that users can easily access to the portals.
- Integrated **OpenAI LLM** to generate meeting transcription **notes summary** and action generation and **whisper AI model** for **STT.**

Software Development Engineer Intern   July 2024 – Sep 2024

Syscore Solutions Pvt Ltd (Gurugram, Haryana- Hybrid) - *Vuejs, TailwindCSS, Docker*

- Contributed to the **IWBI WELL** project by enhancing user interaction and overall platform functionality through front-end and back-end web development improvements.
- Integrated the **Google Maps API** to enable dynamic and interactive map features, supporting real-time geographical data visualization across multiple devices.

Software Development Engineer Intern | *Certificate*   Sep 2023 – July 2024

Watchguard Technologies Pvt Ltd (Noida- On site) - *Python, Flask, FastAPI, Angular, AWS*

- Contributed to **Platform Echo Mission Team (WGID)** projects by developing RESTful APIs for **microservices** using **OpenAPI**, **API Gateway**, and **AWS Lambda (Python)** to build scalable backend services.
- Designed and authored infrastructure-as-code templates for the automated deployment of AWS resources, improving deployment efficiency and consistency.
- Improved code quality and maintainability by applying industry best practices, resulting in increased test coverage from **72% to approximately 89%**.
- Developed unit tests across multiple repositories using the **Pytest** framework to ensure code reliability and robustness.
- Collaborated in building a full-stack internal tool called **WG - Car Pooling System**, contributing to front-end and back-end development.

PROJECTS

Book My Event / *Python, MySQL, Angular* *Github*

- Developed a full-stack event management system serving **3 user roles**: Admins, Event Managers, and Customers.
- Implemented **secure login and session handling** using token-based authentication, reducing unauthorized access by **90%**.
- Built and integrated **6+ dynamic modules** (Event Booking, Editing, Deletion, Dashboard, Event Filtering, etc.) enhancing operational efficiency.
- Utilized **RESTful APIs** to manage **1000+ event records**, ensuring real-time CRUD operations with optimized MySQL queries.

ATM System / *Python, SQlite* *Github*

- Created a CLI-based ATM simulation supporting **5+ core banking operations**: Withdraw, Deposit, Balance Inquiry, Statement & PIN Change.
- Implemented the application using **MVC architecture**, reducing code complexity and improving maintainability by **40%**.
- Enhanced user experience with intuitive CLI prompts and validation logic, resulting in a **bug-free operation rate of 95%** during testing.

TECHNICAL SKILLS

Languages: Python, C++, HTML/CSS, Javascript

Database: MySQL, DynamoDB, PostgreSQL

Frameworks: Django, Flask, FastAPI, Reactjs, Angular

Developer Tools: Git, Github, Bitbucket, Visual Studio Code, Postman, Jenkins, Jira, Docker, OpenAI

Other Skills: OOPs , REST APIs , AWS Lambda, EC2, Amplify, Cloudformation, S3, Clean Coding, Unit Testing, MVC, PrimeNG, Agile Methodology

Soft Skills: Team work, Leadership, Communication

ACHIEVEMENTS

1. Awarded **2** times **extra mile award** for contributing & handling multiple projects in **Abstrabit Technologies**.

2. Solved **450+** data structures and algorithms problems on **GeeksforGeeks;** achieved rank **36** out of **3700+** peers at the institute level.

3. Successfully completed **Hacktoberfest 2022**, contributing to open source with multiple accepted pull requests across repositories.

4. Qualified in the **India Innovate Coding Challenge** with a national rank of **4636** out of **20,000+** participants.

5. AMCAT qualified and certified in **IT Services and Product.**

EDUCATION

Galgotias College of Engineering and Technology   CGPA: 8.13

B.Tech in Computer Science and Engineering   *Nov. 2020 – July 2024*