Ayush Gautam

Full Stack Developer

Summary

Talented and self-motivated Full Stack Developer with 1.2 years of professional work experience in software development. Skilled in building enterprise B2B applications and developing software solutions with proficiency in Java, Python, JavaScript (React.js). Knowledgeable in back-end system architecture, database design, and cloud technologies like AWS, GCP, and Microsoft Azure. Experience with React, GraphQL, and Docker containers. Comfortable working in both Windows and Linux server environments.

Work Experience

June 2022–August 2023 — **Software Engineer**, *Zmanda, Betsol*, Bangalore, India
- Implemented enhanced security measures by migrating clear text secrets from a Django codebase to a secret handler responsible for encryption and decryption. This ensured improved data protection and secure secret management.
- Developed a Single Sign-On (SSO) feature capable of integrating any Identity Provider (IDP) using the PKCE flow. This allowed users access to multiple IDPs and internal IDPs for enhanced security and versatility.
- Designed and implemented a ransomware detection platform that scans files during backups for malware patterns. Upon detection, the backup is quarantined, and users are promptly notified through both email and in-program notifications, thereby minimizing potential security breaches.

Jan 2022–June 2022 — **Intern**, *SwiftCode, Betsol*, Bangalore, India
- Strengthened system security and user login experience by successfully integrating MSAL (Microsoft Authentication Library) into the application.
- Spearheaded the implementation of a robust Video Proctoring system equipped with advanced recognition technology, ensuring a secure examination environment by preventing unauthorized activities.
- Optimized program performance by implementing an nginx multithreading system, enhancing the overall efficiency of the software.
- Dockerized the production code, resulting in faster and more efficient deployments.

Jan 2020–Mar 2020 — **Intern**, *Verzeo Edu Tech*, Bangalore, India
- Collaborated with a team of data scientists and developers to design and implement machine learning models using Python and various libraries, including TensorFlow, Keras, and Scikit-learn.
- Conducted comprehensive data analysis and pre-processing, encompassing data cleaning, feature engineering, and data augmentation.
- Actively participated in agile development methodologies, engaging in daily standups, sprint planning, and retrospectives.
- Contributed to the development of high-quality code and conducted thorough code reviews to ensure codebase integrity.
- Acquired proficiency in different machine learning techniques, such as supervised and unsupervised learning, reinforcement learning, and neural networks.
- Collaborated with designers to create user-friendly interfaces for machine learning models.
- Gained experience in deploying machine learning models on cloud platforms like AWS and GCP.
- Developed data visualization skills and effectively communicated results to both technical and non-technical stakeholders.
- Contributed to open-source machine learning projects and conducted independent research on machine learning techniques.

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May 2019, June 2019   **Intern**, *Addrish Tech. Co*, Chandigarh, India
- Developed a mapping system to facilitate school pickups for clients, enhancing convenience and efficiency.
- Successfully delivered an HTML to PDF converter, enabling easy distribution of school pamphlets.
- Implemented a scrapper and crawler to keep school websites up to date on the main website.

Certifications

Amazon Web Services Cloud Practitioner   Credential ID TYX21Z62RMV1QQCS

Projects

Online Assessment Platform
- Designed and delivered an online test conduction platform for Podar International Schools.
- Incorporated a Proctoring System featuring video proctoring and key press recording, supported by a TensorFlow model to analyze foreign banned items on the camera or signs of distraction.
- Conducted a detailed analysis of test results using graphs to evaluate class performance, individual question completion times, and strengths of students in different question types.

Conspiracy Theory Website
- Developed a user-friendly website where users could post and view conspiracy theories, complete with images, map locations, drawings, and videos.

Remote Android OS Dashboard
- Created a remote android x86 OS running on a server to repurpose old hardware and reduce silicon waste.
- The android system included built-in functions such as YouTube, WhatsApp, Discord, Spotify, etc.
- Isolated users with Login Based Profiles.

Skills

Programming Languages	**Java**, **Python**, **JavaScript** (React.js)
Web Frameworks	**Spring Boot**, Django, Flask
Front-end Development	**React.js**, HTML, CSS, AJAX
Cloud Technologies	**AWS**, **GCP**, Microsoft Azure
Containerization	**Docker**, Kubernetes
Microservices & APIs	Microservices Architecture, **RESTful** APIs
Database Management	**Relational Databases** (MySQL, PostgreSQL), **NoSQL** (MongoDB)
CI / CD	Jenkins, **Docker**
Security	Security Frameworks/Standards
Dependency Injection Frameworks	**Spring** / Spring Boot, Guice
Automated Testing	Unit, Integration, and End-to-End Testing with mocking frameworks
Development Methodologies	**Agile** Development Methodologies
Version Control	**Git**, GitHub, GitLab

Education

2018–2022   **B.Tech in Information Technology**, *Christ University*, Bangalore, India

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