

Punit Tiwari

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Education

Acropolis Institute of Technology and Research

Bachelor of Technology in Computer Science, GPA: 8.13/10
Indore, MP, India

Aug. 2018 – June 2022

Experience

Livegage

Software Developer Engineer - Backend Development, Indore, India

Dec. 2023 – Present

- Led backend software development for the PreVaida project, managing a team of two engineers to build scalable and reliable solutions.
- Reduced PDF processing time by 50% (from 300 to 130 seconds for 800-page files) by implementing a multithreading solution using the Adobe API.
- Configured Amazon S3 replication rules to support cross-account data transfer, improving data management and redundancy.
- Migrated deployment from development to demo environments, ensuring seamless transitions across databases and code.
- Applied Singleton design pattern in SQS and S3 operations, optimizing consistency, memory management, and reducing resource usage.
- Implemented role-based access control with JSON key-value caching, accelerating access time by 30%.
- Improved scalability and reliability for AI model handling by integrating AWS SQS, enabling high request volume processing.
- Developed secure user authentication using AWS Cognito, managing identity access and permissions for thousands of users.
- Structured and optimized database tables; implemented connection pooling and evaluated RDS Proxy for enhanced performance.
- Refactored codebase for improved readability, scalability, and standardization across multiple modules.
- Configured AWS infrastructure components, including Cognito, API Gateway, Identity Pool, and CloudFront for application reliability.

Amazon

Software Developer Engineer - Backend Systems, Bangalore, India

July 2022 – Nov. 2023

- Contributed to backend software development and low-level design for the Eco Cart system, optimizing data validation processes to ensure data integrity.
- Automated data uploads to Amazon S3, reducing storage costs and improving data retrieval efficiency by 30%.
- Authored comprehensive low-level design documentation and created technical diagrams, facilitating team onboarding and project continuity.
- Implemented error-handling mechanisms with Exponential Backoff Strategy, reducing error retries and bolstering system reliability.
- Enhanced user accessibility and engagement by implementing guest login functionality, increasing user interactions by 15%.

Skills

Programming Languages: Python, Java, JavaScript, SQL

Web Development: HTML, CSS, React

Frameworks & Libraries: FASTAPI, SpringBoot, Express.js, Flask

Database Management: PostgreSQL, SQL

Cloud Services: AWS (SQS, Cognito, API Gateway, S3, EC2)

Tools: Git, GitHub

APIs: REST API, JWT

Projects

ImageOpsy

March 2021

JavaScript, Node.js, Express.js, DeepAI API

- Developed an image manipulation website with features like image blending, color conversion, and facial expression analysis.
- Integrated DeepAI API for advanced image processing capabilities.

GraphLizer

August 2020

Python, Flask, NetworkX Module, HTML, CSS, JavaScript

- Built an interactive graph algorithm visualization website for exploring graph algorithms.
- Designed an intuitive UI for navigation through algorithms like bipartite graphs, DFS, and BFS.

Achievements

- 1st Place in Blind Coding Competition, demonstrating problem-solving expertise under time constraints.
- Ranked in the top 900 out of 25,000 participants in Google Kickstart, showcasing competitive programming skills.