Gaurav Mandal

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EXPERIENCE

HNR TECH   Delaware (Remote)
Software Development Engineer   *July 2024 - Present*

- Engineered and integrated **Microsoft Graph API** with **99.9%** uptime, enabling seamless **Microsoft Office** integration. Implemented multi-platform authentication (**Google**, **Microsoft**, **LinkedIn**), increasing user signup conversion by **35%**.
- Optimized API performance with **Redis** caching, cutting response time by **66-75%** (**6-8s** to **2s**).
- Architected a real-time proctoring system using **LoopBack** and **AWS Lambda**, handling **10,000+** concurrent sessions. Utilized **BullMQ** for distributed job processing and Remote Procedure Calls (RPC), securing a **$250K** contract.
- Conducted technical interviews for **10+** candidates, assessing skills and cultural fit. Mentored 2 interns, successfully transitioning them into full-time roles, achieving a **100%** retention rate.
- Refactored and modularized a monolithic server, eliminating **4,000+** lines of redundant code, improving maintainability and scalability.

EZO BOOK   Mumbai
Software Development Engineer   *August 2023 - June 2024*

- Developed an AI-powered support bot with **Langchain** and **OpenAI**, handling **1000+** daily queries with **95%** accuracy, reducing support response time by **60%**
- Streamlined API response times with **Redis** and database indexing, improving performance by **10x**
- Led integration of **NFC**, **Google My Business**, and **AI** tools, generating **1cr+** in additional revenue

DevKit   Remote
Software Engineer Intern   *January 2023 - June 2023*

- Built an AI-powered SQL generator using **OpenAI** and **Langchain**, improving query accuracy by **50%** and reducing development time by **40%**
- Introduced **Google Sign-In** authentication serving **10,000+** users with **99.9%** uptime and zero security incidents

TECHNICAL SKILLS

- **Programming Languages**: **Java**, **JavaScript**, **TypeScript**, **Python**, **HTML**
- **Frameworks & Libraries**: **Spring Boot**, **NestJS**, **React.js**, **Node.js**, **Vue.js**, **LoopBack**, **Langchain**, **Docker**, **Microservices**
- **Databases & Message Brokers**: **MongoDB**, **PostgreSQL**, **SQL**, **Redis**, **BullMQ**, **Apache Kafka**
- **DevOps & CI/CD**: **AWS (Lambda, EC2, ECR, ECS, SQS)**, **Azure**, **Bitbucket**, **GitHub**, **Git**, **Docker**, **Nginx**, **Eclipse**, **Google Colab**, **Agile Methodologies**
- **Core Competencies**: Cloud Computing, System Design, Monolithic Decoupling, Remote Procedure Calls (RPC), Microservices Architecture, API Development, Database Design, Test-Driven Development (TDD)

EDUCATION

Vivekanand Education Society's Institute of Technology   Mumbai, India
Bachelor of Engineering in Information Technology; GPA: 8.5/10.0

PROJECTS

- **Codecheaker**:
  - Designed automated code review **GitHub** app processing PRs daily with **95%** accuracy in detecting code quality issues
  - Integrated **Piston API** and **OpenAI** for automated code execution and review, reducing review time by **30%**

ACHIEVEMENTS

- Ranked **787** among 200,000+ participants nationally in CodeKaze contest (**1st in college**).
- Solved **600+** algorithmic and data structure challenges on LeetCode and GeeksforGeeks.
- Achieved top **5** position in **Invectus** 24-hour hackathon among **100+** teams.