Pragyanshu Rai

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EXPERIENCE

Hitachi Vantara　　　　　　　　　　　　　　　　　　　　　　　Jun. 2022 - Present
Software Development Engineer　　　　　　　　　　　　　　　　　　　Hyderabad

- **Enterprise Factory Configurator** *(client: Toyota Motor Corporation)*
  - Engineered a **Vehicle Configurator App** with vehicle configuration, image generation, and inventory data management.
  - Implemented **microservices API** architecture leveraging **Spring** and **Spring Boot** for runtime, integrated seamlessly with **AWS RDS MySQL** as the underlying databases
  - Transferred the **Jenkins CI/CD** pipeline to **GitHub Actions**, facilitating quicker and seamless integration and cost reduction
  - Utilizing **Route 53** with **ALB and ECS** for microservices and **lambda with layering** for serverless endpoints for high scalability
  - Revamped the legacy application stack by migrating to the **AWS cloud,** thereby reducing the operational cost by **92%**

- **SureTime** *(client: Surepoint)*
  - Crafted a **timekeeping app** utilizing the **Spring Boot** framework for streamlined time tracking, task delegation, and live cost monitoring
  - Implemented **multithreading** and **ThreadPoolExecutor**, and leveraged the **Quartz** library for executing batch jobs.
  - Collaborated with the **SureClear** team to enhance **security** measures for the existing serverless architecture.
  - Established a highly scalable environment by leveraging multiple aws services (**lambda**, **SQS**, **SNS**, **Step Functions**)
  - Implemented a highly reusable **Jest** testing suite ensuring **100%** coverage & project stability

Hitachi Vantara　　　　　　　　　　　　　　　　　　　　　　Jan. 2022 - Jun. 2022
Software Development Engineer - Trainee　　　　　　　　　　　　　　　Hyderabad

- **Schedio** *(client: Hitachi Internal Project)*
  - Led a team of **6** interns to develop a **REST API** for event creation and tracking, built on **Spring Boot** with **MySQL**.
  - Tailored **ORM** to facilitate seamless mapping between objects and relational models, enhancing database accessibility.
  - Formulated a **high-level design** outlining the database relations to ensure data **normalization** and **minimize redundancy**.
  - Achieved enhanced optimization through the adoption of **indexing** and **connection pooling** for queries.
  - Conducted training sessions to equip interns with technical knowledge that meets industry standards.

Prakya Inc　　　　　　　　　　　　　　　　　　　　　　　Oct. 2021 - Jan. 2022
Software Development Engineer - Intern　　　　　　　　　　　　　　　Bengaluru

- **Prakya 360**
  - Designed a report generation and export feature using **Apache POI** and **iText** libraries in a **Java** runtime environment.
  - Enhanced code **optimization** by strategically using **data structures** such as **Sets** and **Maps**.
  - Acquired proficiency in applying **DRY** and **SOLID** principles to optimize code design, tackling real-world challenges adeptly.
  - Automated tasks and testing procedures through the use of **bash** shell scripts.

TECHNICAL SKILLS

Languages:	**Java, JavaScript (Node), TypeScript, Python**, C++, C, HTML, CSS and Bash
Framework and Tools:	**Spring Boot, React, Django**, Terraform, Jenkins, Github Actions, Docker
Database:	**SQL (**MySQL, PostgreSQL**), NoSQL (**MongoDB**)**
Cloud Platforms and Others:	**AWS, High-Level Design, Low-Level Design,** DSA

CERTIFICATION

AWS Certified Developer - Associate　　　　　　　　　　　　　　　　Apr 2024
HackerRank Certified Problem Solving　　　　　　　　　　　　　　　Apr 2024

EDUCATION

B-Tech in Computer Science　　　　　　　　　　　　　　　　Jul. 2018 - Apr 2022
School Of Technology, GITAM, Hyderabad　　　　　　　　　　　　　GPA: 8.4/10

EXTRA-CURRICULAR

- **Co-founded BoldBytes** CS Club in college, Organised 8 Guest lectures and Managed a fund of **1.8 Lakhs**
- Won **Gold** In 100, 200 meters dash, and long jump during our **inter-college** athletics meet.