Darsh Chetan Pandya

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WORK EXPERIENCE

Network Science Institute, Boston, USA | Software Engineer Co-op   **January 2025 – Present**
- Improved fragment navigation and management by adopting tag-based system, **reducing duplicate fragment instances by 30%**
- Applied connection pooling, cutting overhead caused by repeated SSL/TLS handshakes, **improving API response times by 25%**

Gupshup, San Francisco, USA | Backend Developer Intern   **July 2024 - September 2024**
- Developed an automated weekly scheduler using **Java Spring Boot**, analyzing performance metrics like Ad spend and click ratio, resulting in a **15% increase** in **revenue** through improved campaign targeting by delivering actionable insights to marketing team
- Integrated **Apache Kafka** for external messaging with clients, and **RabbitMQ** for internal messaging to ensure seamless and reliable communication between microservices, which led to a **15% increase in message processing efficiency**
- Deployed **Redis** for caching, **reducing database load by 35%** and improving application scalability and user experience
- Employed **Jira** ticketing in **Agile Development sprints**, which streamlined development processes, **increased team productivity by 22%**, maintaining compliance with industry regulations using **SDLC** and ensured timely project delivery

Chance App, Mumbai, India | Software Engineering Intern   **May 2022 - October 2022**
- Utilized **React** for the frontend and **Express.js** with **MongoDB** and **Node** for the backend, managing **API routes** and **CRUD** operations. Achieved a **30% reduction in load time** through Single Page Applications
- Devised a match-making algorithm using hash maps and priority queues, optimizing compatibility metrics to **increase successful matches by 20%.** Achieved **90%+ test coverage** using **Jest** for unit and integration tests, enhancing code reliability
- Implemented a **CI/CD pipeline** with **GitHub Actions** and **Jenkins**, automating and **reducing deployment time by 40%**

Northeastern University, Boston, USA | Web Development Teaching Assistant   **January 2024 – December 2024**
- Facilitated and structured tutorials on **Full Stack** Technologies, including, **React.js**, **Node.js**, **HTML**, **CSS**, **TypeScript**, **Express.js**, **JSON**, **Jest**, **Cypress**, **MongoDB**, **Docker**, **JWT** and **Git** showing effective presentation and communication skills
- Performed **code review** and provided personalized assistance, showcasing strong problem-solving skills and interpersonal skills
- Meticulously graded assignments based on self-developed **E2E** and **unit tests**, highlighting strong analytical and evaluation skills

PROJECTS

Image Processing Application, Java Application   **September 2023 – December 2023**
- Created an Image Processing Application, incorporating an **MVC** design for the front end, facilitating interaction through various channels, GUI, **batch processing** via command scripts, and interactive text UI. Implemented **Junit** for unit testing
- Constructed the UI using **Swing**, utilized **Command Callback** pattern for View and **Command Design** Pattern for Controller, in compliance with **SOLID** principles. This facilitated seamless user interactions, enhanced user experience and system efficiency

Rent&Roll – Car Booking Application, Web Application using **MERN Stack**   **September 2023 – December 2023**
- Engineered an end-to-end multi-tiered solution with distinct user roles, enabling users to easily rent cars on a specific time
- Designed and integrated REST APIs, utilized **OAuth** for secure and seamless user authentication, enhancing the overall security
- Developed a **Docker** image to containerize the app, deployed it to **AWS Elastic Kubernetes Service** for resource management
- Configured **Kubernetes** deployments and utilized **AWS CloudWatch** for enhanced application performance and reliability

WeBook – Hotel Booking Management System, Python Web-Application using **Django** and **MySQL**   **August 2022 – April 2023**
- Developed a system utilizing Python's **Django** framework for backend logic, and **React** to ensure a robust and interactive UI
- Incorporated **Graphene** to implement custom **GraphQL APIs** and implemented **MySQL** as the backend database to efficiently store and manage booking data, providing seamless integration with **Django ORM** for data manipulation and retrieval

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, Kotlin, PHP, C/C++, C#, HTML, CSS
Databases: MySQL, MongoDB, PostgreSQL, Redis
Web technologies: React.js, AngularJS, Node.js, Sockets, REST APIs, Azure, AWS Elastic, Docker, Kubernetes, Redux, Ajax
Tools and Frameworks: RabbitMQ, JIRA, Jenkins, Maven, Git, Tableau, Visual Studio, Apache Kafka

EDUCATION

Northeastern University, M.S. in Computer Science, GPA: 3.95 / 4.0   **September 2023 – August 2025**
Coursework: Program Design Paradigm, Web Development, Algorithms, Mobile App Development, Machine Learning, DBMS, NLP

K.J. Somaiya College of Engineering, B.Tech in Information Technology, GPA: 3.65 / 4.0   **August 2019 - May 2023**
Coursework: Data Structures, Software Engineering, Cloud Computing, Advanced Databases, Operating Systems, DevOps