

Manoj Kumar

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Education

National Institute of Technology, Trichy

May 2022

Bachelor's degree (GPA: 8.55 / 10.00)

Trichy, India

- **Relevant Coursework:** Data Structures and Algorithms (C++), Database Management Systems, Operating Systems, Network Security, Software Engineering, Java Programming, Microservices Architecture

Experience

Citi

July 2022 – Present

Software Engineer

Chennai, India

- **Enhanced Citi's credit and debit card features** by leading the ESB/API team, managing 5+ vendor teams and project deliverables, which improved feature deployment efficiency by **30%** and reduced project completion time by **20%**.
- **Spearheaded the development of a transaction dispute system** for debit cards, enabling customers in Hong Kong to file disputes via the mobile app, resulting in a **50% reduction in manual CPO interactions** and ensuring compliance with HKMA regulations.
- **Directed the successful migration of APIs** from Java 8 to Java 17 as a core member of the migration team, ensuring a smooth transition with **zero downtime** and a **15% improvement in application performance**.
- **Developed the Release Rapidity Tool**, automating deployment tasks including Jenkins builds and pull requests, which cut deployment time by **40%** and increased deployment frequency by **25%**.
- **Achieved third place in the OT Expo Hackathon** by designing a solution for the Return to Site problem within 24 hours, showcasing innovative problem-solving skills and receiving recognition from senior management.

PALEO

Oct 2021 – Nov 2021

Software Engineer Intern

Remote

- **API Development:** Created a RESTful API from scratch using Node.js, Express, MongoDB, and Mongoose.
- **Security Implementation:** Enhanced API security by integrating JWT authentication.

JOBDAE

Jun 2021 – Aug 2021

Software Engineer Intern

Remote

- **Platform Development:** Developed a standalone platform for students to practice aptitude and programming quizzes.
- **API Development:** Developed APIs in Django REST Framework (DRF) for various new features implemented on the Jobdae website.

CLIMATE CONNECT

Dec 2020 – Apr 2021

Data Scientist Intern

Remote

- **Model Development:** Developed models to predict electricity demand based on environmental conditions.
- **Automation:** Built an automated IDF model to reduce manual intervention required by the Operation Analyst Team.

Projects

RESOURCE FINDER | Cloud Vision API, Django, Flask

- A web app that consolidates **20+ high-quality** study resources with just one simple scan of a textbook

PHOTO-PASSWORD - SECURE ACCOUNTS WITH IMAGES, NOT PASSWORDS | Django

- Created a website that demonstrates how users can securely sign up and log in using images instead of traditional passwords, showcasing an alternative approach to account security.

Technical Skills

Languages: Java, Python, C/C++

Technologies: Spring Boot, Django, Flask, Express.js, Node.js, AWS, CI CD Pipelines

Concepts: Compiler, Operating System, Virtual Memory, Cache Memory, Encryption, Decryption, Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization, Agile Methodology, Cloud Computing