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Experience

AGRATAS/Tata Enterprise – R&D Software Development Intern   June 2025 – Present
- Engineered a **Java** backend using **OOP**, creating **15+ API endpoints** for full **CRUD** functionality across **3 core modules** (Customer, Bill, Complaint) and delivering on all **15 project user stories**.
- Designed a normalized **SQL** database with **3+ tables** and **25+ total attributes** to ensure high data integrity, authoring **5+ types of complex analytical queries** to generate reports on customer and payment trends.
- Developed a responsive **5-screen UI** using **HTML5, CSS3, and JavaScript**, implementing **5+ core features** including a multi-step payment process and downloadable receipts, with client-side validation on **10+ input fields**.

Keysight Technologies – R&D Software Development Intern   Jan 2025 – June 2025
- Pioneered a full-stack automation framework leveraging **Eggplant's Digital Automation Intelligence suite** and **PowerShell** to orchestrate the CI/CD pipeline for the complete software lifecycle across **15+ enterprise modules**, eliminating over **90 hours** of manual engineering effort per release.
- Created a custom versioning engine using **PowerShell scripts** and the **JFrog CLI** to manage **500+ weekly builds** from Artifactory, validating over **1,000+** parameters and boosting deployment speed by **40%**.
- Built a test suite within the **Eggplant** framework, executing **300+ automated checks** across **12 QA environments** that reduced release-blocking configuration bugs by **95%** and integrated with **Jira via APIs** for auto-ticketing.

The Assigner – Machine Learning Engineer Intern   Mar 2024 – June 2024
- Implemented a novel **Longformer Encoder-Decoder** model in **PyTorch** for abstractive summarization, achieving a **ROUGE-L score of 0.45** (a 20% relative increase over baseline) on documents up to **16,000 tokens** by training on a custom dataset of over **500,000** articles.
- Cultivated an end-to-end **NLP data pipeline** using **Hugging Face Transformers** to process over **100 GB** of text; slashed model training times on **NVIDIA A100 GPUs** by **40%** by mixed-precision training and gradient accumulation.
- Deployed the final model using **Docker** and **AWS SageMaker**, serving **5,000+ daily active users** with an average latency of under **200ms**. This MLOps pipeline cut inference costs by **30%** and handled **50+ requests/sec** via a **FastAPI** endpoint.

Technical Skills

- **Languages:** Java, C++, Python, SQL, JavaScript, HTML/CSS
- **Frameworks & APIs:** ReactJS, Spring Boot, Node.js, REST APIs
- **Databases:** MySQL, MongoDB
- **Cloud & DevOps:** AWS, Docker, Kubernetes, Jenkins, CI/CD, JFrog
- **Developer Tools:** Git, Power BI, Eggplant, Smartsheet, Figma
- **Core Concepts:** Data Structures Algorithms, OOP, OS, DBMS, Computer Networks, Machine Learning

Projects

Comprehensive Facial Recognition for Complex Scenarios   2024
- Formulated an automated data pipeline using **MediaPipe Face Mesh** to generate a high-fidelity dataset of 468 3D landmarks from over 1,000 videos, which improved downstream model training accuracy by 15%.
- Architected a **Graph Convolutional Network (GCN)** to analyze spatial facial landmarks, achieving 92% accuracy in face re-identification and outperforming baseline models by 18% in challenging conditions (occlusions, pose variations).

PAYANA: Tours and Travels Management System   2023
- Developed a full-stack travel management system using **Java, Spring Boot, and MySQL**, increasing operational efficiency for partner agencies by 30% through automation.
- Constructed a robust backend with REST APIs and optimized database queries, streamlining the booking process for over 1,000 users and cutting query times by 25%.

Education

PES University (RR campus), Bengaluru   2021 – 2025
- B.Tech in Computer Science and Engineering, CGPA: 8.05

KCS-Yallatti   2018 – 2020
- Senior Secondary (XII), Percentage: 90.07%
- KCET Rank: 686, JEE-Mains: 97.48 percentile, JEE-Advanced Rank: 22324

JNV Belagavi   2017 – 2018
- X-CBSE, Percentage: 90%