

RONALD ROMMEL MYLOTH

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Education

Northeastern University

Sep 2024 – May 2026

Master of Science in Computer Science — GPA: 4.0

– Coursework: Algorithms, Distributed Systems, Cloud Computing, Database Management Systems, Object-Oriented Design

Cambridge Institute of Technology

Aug 2019 – Jun 2023

Bachelor of Engineering in Computer Science — GPA: 8.27

– Coursework: Data Structures and Algorithms, Computer Networks, Web Development, Artificial Intelligence, Object-Oriented Programming, Software Engineering, Operating Systems

Experience

Tata Consultancy Services Ltd

Jun 2023 – Jul 2024

Software Developer

Karnataka, India

- Contributed to the development of back-end microservices using Node.js and Express for Deutsche Bank, improving system resilience and supporting performance optimizations.
- Integrated RESTful APIs and implemented secure authentication using OAuth2 and JWT, enhancing application security and improving user access control.
- Contributed to dynamic, responsive front-end applications using React, Redux, JavaScript, and HTML/CSS, implementing performance optimizations such as lazy loading and reducing load times by 30%, significantly improving user experience across devices.
- Improved system performance by refining SQL queries, indexing, and working with MySQL, leading to a 15% reduction in data retrieval latency.

Xurmo Technologies Pvt Ltd

Aug 2022 – Nov 2022

Software Developer Intern

Karnataka, India

- Built secure authentication services using Azure Active Directory in Node.js and Python applications, leveraging multi-tier architecture.
- Designed scalable middleware in Node.js to validate JWTs and enforce authentication flows.
- Developed and tested RESTful APIs to support efficient internal data pipelines across distributed systems.
- Achieved over 90% unit test coverage, significantly reducing post-deployment issues.

Projects

Billio: Serverless Invoice Generator | *Node.js, React, AWS (Lambda, DynamoDB, S3)*

Feb 2025 – Present

- Engineered a fully serverless invoicing platform with AWS Lambda, API Gateway, and DynamoDB, enabling real-time invoice creation, retrieval, and updates.
- Built a dynamic PDF invoice generation engine using pdf-lib, allowing customizable, branded invoices served directly from AWS Lambda.
- Configured secure IAM roles and fine-grained policies to manage Lambda access to DynamoDB and S3 without compromising security.
- Deployed the React frontend on Render and integrated REST APIs to achieve a seamless end-to-end user experience.
- Implemented logging via AWS CloudWatch and load tested the system to handle 100+ concurrent requests with minimal latency.

Blood Vein Detection System (Patented) | *Python, Raspberry Pi, Machine Learning, OpenCV*

Aug 2022 – Mar 2023

- Engineered a real-time machine learning-based prediction system to detect veins in obese patients using NIR and NoIR imaging.
- Enhanced image contrast by 40% using CLAHE; trained ML model for accurate vein location, reducing nurse retries and patient discomfort.
- Developed fault-tolerant data logging pipeline to ensure consistent operation under various lighting and user conditions.

CulturalCompass: Local Event Discovery App | *ReactJS, Node.js, Android*

Oct 2021 – Apr 2022

- Created an interactive, responsive full-stack web application with real-time venue search and caching to improve user experience.
- Applied local storage caching to reduce redundant API calls by 60% and enhance application speed.
- Designed and deployed the multi-tier architecture including front-end (React), back-end (Node.js), and external API integration.
- Led full-stack implementation and deployment, ensuring maintainability and scalability of services.

Publications

System and Method of Blood Vein Detection Using Near Infrared Light — Intellectual Property of India (05/05/2023).

Technical Skills

Languages: Java, Python, C++, JavaScript, TypeScript, SQL

Databases: MySQL, PostgreSQL, MongoDB, AWS DynamoDB

Technologies & Frameworks: Distributed Systems, Microservices, Machine Learning, Object-Oriented Programming, Docker, Kubernetes, Flask, React.js, Node.js, GitHub

Cloud & DevOps: AWS EC2, S3, API Gateway, CloudWatch, IAM, CI/CD, Azure AD

Tools: VS Code, Eclipse, Postman, Android Studio, Jupyter Notebook