

Mohana Prasad Panneerselvam

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SUMMARY

AI Founding Engineer at Coharts and full-stack developer with 2+ years of experience designing and deploying scalable web applications using React.js, Node.js, and AWS. M.S. in Information Technology from Arizona State University (4.0 GPA), with a focus on modern software architecture, cloud integration, and data-driven development.

PROFESSIONAL EXPERIENCE

Founding Engineer | Coharts, Walnut Creek, California May 2026 – Present

Software Engineer Intern | Coharts, Tempe, Arizona Jan 2026 – May 2026

Tech: AWS, Docker, Terraform, CI/CD, SSO / Entra ID

- Built and maintained the frontend of the company's MVP using modern web technologies and contributed to delivering production-ready features.
- Deployed and managed applications on AWS using services including EC2, ECS, ECR, S3, RDS, VPC, and KMS.
- Containerized applications using Docker and streamlined deployments through CI/CD pipelines.
- Automated cloud infrastructure provisioning using Terraform, improving scalability and deployment consistency.
- Implemented secure authentication and access control systems, including SSO integration with Microsoft Entra ID for AWS.
- Explored and implemented VPN solutions with IP-based access restrictions to strengthen system security.

Full Stack Developer | Sanrove Technologies, Chennai, India Apr 2023 – Oct 2024

Tech: React, Node.js, Express, MongoDB, Docker, AWS, CI/CD, Git

- Engineered scalable MERN apps for client projects, improving UI speed by 12% and backend performance by 15%.
- Re-architected RESTful APIs to streamline service communication and strengthen system reliability.
- Implemented Docker-based CI/CD pipelines on AWS, automating deployments and ensuring stable releases.
- Collaborated with a team of 5 developers in Agile sprints to deliver production-ready features on schedule.

Full Stack Developer Intern | Sanrove Technologies, Chennai, India Sep 2022 – Mar 2023

Tech: React, Node.js, Express, MongoDB

- Collaborated with a cross-functional team to deliver new features using React.js and Node.js within Agile sprints.
- Refactored legacy components into modular, reusable code, improving maintainability and accelerating load time by 30%.
- Facilitated testing and debugging workflows to ensure smooth, high-quality production releases.

Full Stack Developer Intern | Zeus Desk, Chennai, India Dec 2021 – Mar 2022

Tech: React, Node.js, REST APIs, MongoDB

- Created internal dashboards using React.js and Node.js, streamlining workflows and automating manual operations.
- Refined backend APIs, improving reliability by 15% and enhancing data processing consistency.

EDUCATION

M.S. Information Technology, Arizona State University Jan 2025 – May 2026

Relevant Coursework: Advanced DBMS, Big Data Analytics, Data Visualization

GPA 4.0 / 4.0

B.E. Computer Science and Engineering, Anna University Aug 2019 – Mar 2023

Relevant Coursework: DSA, OOPs, DBMS, Data Mining, OS, AI, Computer Networks

GPA 3.68 / 4.0 · First class with distinction

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, HTML, CSS
Front-End: React, Next.js, Redux, Tailwind CSS, Material UI, Bootstrap, D3.js, Electron
Back-End: Node.js, Express, FastAPI, Django, Flask, REST APIs
DevOps & Cloud: AWS, Docker, Kubernetes, CI/CD, Git, GitHub Actions, Terraform
Databases: MongoDB, SQL, Firebase Firestore, Database Design
AI & Security: OpenAI API, SSO / Entra ID

PROJECTS

EzCatalog (AI eCommerce platform · Sanrove) Jul 2024

- An eCommerce platform with a product catalog and product details, plus AI capabilities to create, edit and manage products. *(React, Python, FastAPI, MongoDB, Redux, OpenAI API)*

EzSurvey (AI survey generator · Sanrove) May 2024

- A survey generator application with AI capabilities for creating and managing surveys, including a dashboard, survey creation and survey management. *(React, Python, FastAPI, MongoDB, Redux, OpenAI API)*

WERP — Weaver's ERP System (Enterprise resource planning · Sanrove) Sep 2022 – Mar 2023

- A full-stack ERP system for the weaving industry that improved workflow efficiency by 10% and reduced material waste via automation. *(React, Node.js, Express, MongoDB, Redux)*

CERTIFICATIONS

- Project on Real-Time Communication System Powered by AI for Specially Abled (ICT Academy, Feb 2023)
- React (Basic) (HackerRank, Apr 2022)
- Crash Course on Python (Coursera, Sep 2021)

ACHIEVEMENTS

- Smart India Hackathon — Winner · 2022. Groundwater monitoring solution for the Central Ground Water Board.
- Published research — Hydro-Chemical Analysis using Data Science. Presented at ICICC 2022 · SSRN Elsevier.
- KRATOS'22 — Pair Programming · Host & coordinator.