

Purandhar Sundaramoorthy

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EDUCATION

Master of Computer Science - State University of New York, Binghamton, USA

Aug 2022 - Aug 2024

Bachelor of Engineering in Electrical and Electronics - REC, Chennai

Aug 2015 - May 2019

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java

Databases: MySQL, PostgreSQL, Oracle, MongoDB, Redis

Web-Development: HTML5, CSS3, React.js, Next.js, Node.js, Django, FastAPI, REST, WebSockets, GraphQL,

Cloud & Containerization: AWS, GCP, CI/CD, GitHub Actions, Gitlab CI, Docker, Kubernetes

Data / AI: ETL, RabbitMQ, Kafka, LLMs, Langchain, AI Agents, Cursor, Windsurf

Software Engineering & Development: SDLC, TDD, Agile, Linux/Unix, Git, Jira, Postman, Grafana

PROFESSIONAL EXPERIENCE

Viz, Software Engineer | Wyoming, USA

Oct 2025 - Nov 2025

- Collaborated in backend development by assisting with API tasks, debugging issues, and gaining hands-on exposure to the codebase and **System design**

Binghamton University, Software Engineer Intern | New York, USA

Oct 2024 – Oct 2025

- Designed a Record Tracker **CRM** full-stack development for Medical Science using frameworks like **React.js** and **Next.js** (TypeScript) for users to log and track issues efficiently, to create a scalable, maintainable UI
- Engineered a scalable microservice architecture using **Node.js** (Express) and designed database schemas in **MySQL** and **MongoDB** on **GCP**, maintaining reliable storage and **querying** capabilities

Entertainment Technologies Inc., Software Development Intern | California, USA

July 2023 – May 2024

- Created a **UI/UX** for a Media management application, with **ReactJS** framework for a responsive **frontend** for the product
- Led responsibilities for **debugging** 20+ complex web issues, resolving JavaScript bugs in the work processes of the platform
- Integrated **4** vendor **APIs**, tested and validated them with a 90% functionality, and applied **JWT authentication**
- Ensured development with Git-based source control, **test automation**, code reviews, and **CI/CD** pipelines for deployment

Systech Solutions, Associate Software Engineer | Chennai, India

Nov 2021 – Mar 2022

- Developed the backend for Dopplr, a cloud-based data management and analytics platform, using **object-oriented** design while optimizing **API** flows, **RBAC**, and interactions with both **SQL** and **NoSQL** databases
- Collaborated with **AI/ML engineers** to integrate machine learning algorithms for anomaly detection via **FastAPI** into 10+ **backend APIs** to deliver real-time insights and flag irregular data patterns
- Created **Python** software as an internal tool to generate **SQL** queries across **relational databases**, enhancing **query** efficiency by 60%
- Customized Dopplr's frontend using **HTML**, **CSS**, **JavaScript**, and a **React-based** architecture with **Hooks** and **Redux** to manage dashboards for 1000+ customers, improving performance through lazy loading optimization

Apar Innosys, Associate System Analyst | Chennai, India

Mar 2020 - Oct 2021

- Designed a **SaaS** platform for **managing**, visualizing, and **analyzing** IoT devices through a **web application** supporting 2000+ devices
- Built a **Node.js** server-side to subscribe **Python** based **message broker** to update the **frontend** via RESTful APIs for real-time monitoring
- Stored device data and metadata in a **structured SQL** database for efficient querying, and integration across services and deployed **scalable cloud** solutions with **AWS S3** and **Lambda** for serverless computing
- Customized the **frontend** application using **JavaScript** and **HTML** to display device statuses and data, delivering a user-friendly and efficient **user experience** using build tools while reducing **code complexity** by 20% through clean code practices
- Owned **unit testing** and debugging processes, driving 80% reliability and uptime across the backend of the distributed systems