

Prathik Pugazhenth

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Education

Master of Science in Computer Science

University of Illinois, Chicago, United States of America

Aug 2024 – May 2026

GPA: 4.00/4.00

Bachelors in Computer Science and Engineering

Vellore Institute of Technology, Vellore, India

Jul 2018 – May 2022

GPA: 8.88/10.00

Technical Skills

Tech Stack: Python, JavaScript, TypeScript, React, Java, Redux, Next.js, Nest.js, Node.js, Swift, Solidity, Flask, HTML

Cloud Platforms & Databases: GCP, AWS, Azure, SQL, MongoDB, ELK Stack, Redis.

AI & ML: TensorFlow, R, Machine Learning, OpenAI

DevOps & CI/CD: Docker, SonarQube, Kubernetes, GitHub Actions.

Tools, Technologies & Methodologies: Selenium, Jest, PowerBI, Alteryx, Postman, Figma, Agile, Scrum, CI/CD, TDD.

Experience

Software Development Intern, RadioFX Inc. | Chicago, USA

June 2025 – Aug 2025

- Led migration of **legacy workloads to Google Kubernetes Engine (GKE)** by setting up isolated dev and prod clusters with namespace-based separation, improving scalability and security.
- **Designed and implemented CI/CD pipelines** using Google Cloud Build and GitHub Actions, enabling automated deployments to multiple environments with zero-downtime rollouts.
- **Built an automated website builder** for radio stations using a two-agent pipeline: an **Evaluation Agent** to analyze SEO, security, and UX gaps, and a **Design Agent** to generate layouts via Vercel's Web Builder (v0); deployed optimized sites on GKE.

Software Development Engineer, Bajaj Finserv Health | Pune, India

Sept 2023 – Jul 2024

- **Engineered** and **elevated** two key modules within the Doctor's Portal, **improving** system **reliability** and overall functionality.
- **Created** robust validation rules and **automated** pipelines for B2C and Doctor's Portal teams, **minimizing** codebase errors by **80%** and **optimizing** workflow.
- **Designed** and **architected CanvasRx**, a feature **empowering** doctors to **upload** and **annotate** images, **enhancing** consultation workflows and user interaction.

Associate Software Development Engineer, Bajaj Finserv Health | Pune, India

Jul 2022 – Sept 2023

- **Led** the end-to-end **maintenance** of three core B2C modules, **supporting 98%** of total website traffic and **reducing** bug occurrences by **95%**.
- **Optimized** website performance by **implementing** AMP, **boosting** the PageSpeed Score from **65** to **99**, resulting in **faster** load times and an **enhanced** user experience.

Software Development Engineer Intern, Bajaj Finserv Health | Pune, India

Jan 2022 – Jun 2022

- **Refined** website SEO by **reducing** poor URLs from **11,380** to **562**, **elevating** the SEO score to **98** for critical traffic-driving pages.
- **Established** SonarQube pipeline, **increasing** code coverage from **0%** to **55%**, **enhancing** code quality and **maintainability**.

Projects

EnsoGrow | WildHacks - 2025 | Github | Apr 2025 - Apr 2025

- Built a React PWA to assist users in growing organic food with AI-powered crop suggestions and gamified care tracking.
- Integrated computer vision and Gemini API to diagnose plant health and recommend treatments.

Virtual Emotion Mirror | Github | Jan 2025 - Mar 2025

- Developed an AI facial emotion recognition app that tailors music/movie recommendations based on real-time expressions.
- Used React.js for UI, Nest.js-Python for backend, and MongoDB for emotional trend tracking.

Publications

- **CRLite+: A lightweight browser extension for dynamic certificate revocation enforcement** - Released as a fully functional Chrome extension for revocation enforcement. [Chrome Web Store](#) | [View Publication](#)
- **Integrating Coverage-Guided Fuzzing and LLM Reasoning for Automated Repair of Crash-Inducing Bugs** - Introduces a 3-stage repair pipeline combining AFL fuzzing, GDB traces, and LLM reasoning. [View Publication](#)

Achievements

Awards: WildHacks 2025 (Northwestern University), IIT Madras UNCONFERENCE, Ketto Student Volunteer.