

# Prathik Pugazhenth

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📍 Chicago, IL

## Education

### Master of Science in Computer Science

University of Illinois, Chicago, United States of America

Aug 2018 – May 2020

GPA: 4.00/4.00

### Bachelors in Computer Science and Engineering

Vellore Institute of Technology, Vellore, India

Jul 2014 – May 2018

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 Co-op, RadioFX Inc. | Chicago, USA

June 2019 – Dec 2019

- Engineered a multi-agent AI website generation pipeline (Gemini 2.5/3 Pro, Vercel v0) automating prompt → code → deployment, and deployed N+ multi-tenant websites on GKE using Helm, namespace isolation, and NGINX ingress.
- Developed a scalable CMS backend using NestJS and Cassandra, and built plug-and-play, JWT-secured API components for third-party websites to seamlessly integrate RadioFX services, supported by optimized CI/CD workflows.

### Software Development Intern, RadioFX Inc. | Chicago, USA

June 2018 – Aug 2018

- Migrated legacy services to Google Kubernetes Engine (GKE) by architecting isolated dev and prod clusters with namespace-level separation, improving platform scalability and security.
- Built and optimized CI/CD pipelines using Google Cloud Build and GitHub Actions to enable automated, zero-downtime deployments across multiple environments.

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

Sept 2017 – Jul 2018

- 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 2016 – Sept 2016

- 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 2015 – Jun 2015

- 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.