

# Abhiram Ramachandran

Philadelphia, PA

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Driven Computer Science honors student at Drexel University with hands-on experience in full-stack development, AI/ML applications, and embedded systems. Skilled in Python, Java, React, and modern software frameworks, with proven success delivering efficient solutions through Agile practices and cross-functional collaboration. Seeking software engineering or AI/ML internship opportunities to apply technical expertise and problem-solving skills toward building impactful, user-focused technologies.

## Education

**Drexel University** Philadelphia, PA

Expected Graduation: June 2027

*Pennoni Honors Program, Bachelor of Science in Computer Science, Minor in Business Analytics*

**Universitat Pompeu Fabra** Barcelona, Spain

January 2025 – March 2025

*Barcelona Program for Interdisciplinary Studies, Escola d'Enginyeria*

## Skills

**Programming Languages** Python, C, C++, Java, C#, Makefile, JavaScript, TypeScript, Assembly, R

**Tools & Frameworks** VS Code, IntelliJ, PyCharm, Git, React, NextJS, Expo, Firebase, LangChain, PyTorch, Jupyter, TailwindCSS

**Spoken Languages** Spanish

## Work Experience

**Project Janatha** Remote

August 2025 – Present

*Chinmaya Mission West*

- Spearhead development of a location based social media platform for over Chinmaya Yuva Kendra (CHYK), the youth wing of Chinmaya Mission with 1000+ members, to foster a better community in Mission
- Develop front end application utilizing React Native and Gluestack UI to create intuitive app experience to ensure ease of use and adoption, contributing to 45% of Minimum Viable Product (MVP)
- Implement Agile methodology to create 2 week sprint timelines and execute on 25+ user stories to ensure fast and flexible development

**Software Development Engineering Co-op** Mount Airy, MD

April 2024 – September 2024

*Epiq Solutions*

- Programmed JSON interfaces for software defined radios (SDRs) in Python, adhering to development and operations (DevOps) practices to improve code performance by 15%
- Built unified VITA49 packet parser libraries for 32-bit SDR architectures using Test Driven Development (TDD), improving production testing efficiency by 20%
- Designed Linux user interfaces (UIs) in Python for test stations using PyQt and Matplotlib modules to streamline production testing procedures
- Tested 200+ digital, tuner and reference modules in SDRs for appropriate phase noise and power distribution, hitting quality assurance (QA) targets

**Software Development Intern** Edison, NJ

June 2023 – September 2023

*EV Buddy, Inc*

- Conducted 30+ hours of market research on electric vehicle (EV) charging systems to develop vehicle-to-vehicle charging solution
- Programmed sniffer data parsing software in C++ and Python, improving success of prototype by 45%
- Used OpenEVSE Arduino embedded system to build a prototype architecture that interface with RS485 and CAN protocols used in EVs
- Developed user experience (UX) flow for a social app over 50+ Figma design iterations to electric vehicle (EV) owners

## Projects

**DragonLearn** Philadelphia, PA

April 2025 – Present

*Drexel Society of Artificial Intelligence*

Develop an AI-powered learning platform using NextJS and TailwindCSS that converts Drexel syllabi into structured study modules with curated content and Manim-generated interactive math animations.

**CrashMath** Philadelphia, PA

September 2022 – June 2023

*Drexel College of Computing and Informatics*

Led the development of a gamified calculus learning platform using Firebase and JavaScript, implementing a ChatGPT-powered chatbot and managing over 25 user stories across 5 sprints through agile workflows and Kanban tracking.

## Honors and Awards

A.J. Drexel Scholarship

September 2022 – Present

Dean's List Recognition

September 2022 – December 2022