Abhiram Ramachandran Philadelphia, PA

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Computer Science honors student at Drexel University with full-stack development, AI/ML and embedded experience across production systems and user-facing applications. Seeking software engineering internship to build impactful, scalable technologies.

Education

Drexel University Bachelor of Science in Computer Science, Minor in Business Analytics │ Philadelphia, PA
Expected Graduation: June 2027

Universitat Pompeu Fabra Barcelona Program for Interdisciplinary Studies, Escola d'Enginyeria │ Barcelona, Spain
January 2025 – March 2025

Skills

Programming Languages Python, C, C++, Java, C#, Makefile, JavaScript, TypeScript, Assembly, R
Tools & Frameworks VS Code, IntelliJ, PyCharm, Git, React, Expo, TailwindCSS, Firebase, LangChain, PyTorch, Jupyter
Spoken Languages Spanish

Work Experience

Lead Developer (Volunteer) Chinmaya Janata, Chinmaya Mission West │ Remote
August 2025 – Present
- Architect and lead development of cross-platform social media app to foster better community for Chinmaya Mission's 1000+ member youth wing, Chinmaya Yuva Kendra (CHYK)
- Develop front-end components utilizing React Native and Nativewind to implement geolocation and social media feed services, 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 Epiq Solutions │ Mount Airy, MD
April 2024 – September 2024
- 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 EV Buddy, Inc │ Edison, NJ
June 2023 – September 2023
- Researched EV charging protocols (CCS, CHAdeMO) and developed technical specifications for vehicle-to-vehicle charging solution, informing prototype architecture
- Programmed sniffer data parsing software in C++ and Python to analyze EV charging protocols, improving success of prototype by 45%
- Used OpenEVSE Arduino embedded system to build a prototype architecture that interfaced 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 Drexel AI │ Philadelphia, PA
April 2025 – Present
Engineer AI-powered learning platform using NextJS and TailwindCSS that converts Drexel course syllabi into structured, personalized learning modules, leveraging LangChain for intelligent content curation and implementing custom Manim integration to generate interactive mathematical visualizations, designed to serve 15,000+ Drexel students.

CrashMath College of Computing and Informatics │ Philadelphia, PA
September 2022 – June 2023
Led development of a gamified calculus learning platform containing 100+ exam questions with Firebase backend and JavaScript, integrating OpenAI API to build an intelligent tutoring chatbot that provides personalized problem-solving assistance, while managing cross-functional development of 25+ user stories across 5 Agile sprints using Kanban methodology.

Honors and Awards

A.J. Drexel Scholarship September 2022 – Present
Dean's List Recognition September 2022 – December 2022