

ARIJIT CHAKMA

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SKILLS

- **Languages:** Python, JavaScript/TypeScript, Java, C/C++, Go, SQL, Bash
- **Web/App Dev:** React, NextJS, React Native, Expo, HTML/CSS, Tailwind, MaterialUI
- **Backend/Systems:** Node.js, Gin, Flask, FastAPI, Docker, Distributed Systems, Unix/Linux
- **Cloud/DB:** AWS (Lambda, Step Functions, DynamoDB, API-Gateway), PostgreSQL, MongoDB, Supabase, Pinecone
- **AI/ML:** TensorFlow, PyTorch, Hugging Face, LangChain, LangGraph, MCP

EXPERIENCE

ASAPP

AI Software Engineer Intern

NYC, NY (Remote)

Aug 2025 – Present

- Designing scalable pipelines with **LangGraph** and **OpenAI API**, transforming unstructured conversations into structured datasets for analytics.
- Building features for enterprise-scale ML workflows with a focus on speed, reliability, and safety.

Visual Intelligence Lab, Drexel University

Lead AI Researcher Co-op (Advisor: Dr. Feng Liu)

Philadelphia, PA

Apr 2025 – Sep 2025

- Engineered an LLM simulation framework modeling diverse student learning profiles, boosting teacher assessment accuracy by **30%**.
- Generated **10,000+** multimodal science examples with AI-driven concept maps, enhancing interpretability for educators.
- First author of a research paper (currently under peer review).

Bristol Myers Squibb

Cloud and Software Developer Co-op

Princeton, NJ

Apr 2024 – Sep 2024

- Built **5+** distributed ETL workflows with **AWS Step Functions**, supporting **10,000+** employees with **70%** higher accuracy.
- Automated de-licensing for **1,250+** users via **AWS Lambda + Puppeteer**, reducing manual overhead by **90%**.
- Developed a **React** frontend integrated with **API Gateway** for AWS DataZone, cutting latency by **80%**.
- Migrated **1.3 TB** of data from **DynamoDB** to **Athena** with Python, saving analysts **8+** hours weekly.

Develop For Good

Software Engineer (Volunteer)

Remote

May 2024 – Aug 2024

- Implemented event filtering and authentication with **React/TypeScript** and **Firebase**.
- Migrated **2,000+** lines of JavaScript to TypeScript, reducing runtime bugs by **40%**.

PROJECTS

WoundWatch — React Native, Flask, Hugging Face, MongoDB

[Link](#)

- Built AI-powered mobile app reconstructing 3D wounds from 2D images, enabling scalable remote clinical analysis.

VentureAhead.AI — ReactJS, Flask, OpenAI API, SerpAPI

[Link](#)

- Created multi-agent system for automated business ideation, research, and simulation, generating actionable insights for entrepreneurs.

ACHIEVEMENTS

- **PennApps Winner (2024):** 1st Place out of 105 projects at University of Pennsylvania's premier hackathon.
- **HopHacks Winner (2024):** 2nd Place out of 80 projects at Johns Hopkins University's hackathon.
- **DragonHacks Winner (2024 & 2025):** Best Multimedia Track (2024), Best Social Impact Award (2025).
- **Drexel Global Scholar (2023):** 1 of 13 international students awarded \$330,000 scholarship for academic excellence.

EDUCATION

Drexel University — **BS in Computer Science**

Philadelphia, PA

GPA: 3.81/4.00, Specialization: AI/ML, Graphics/Vision

Expected Graduation: June 2027

Coursework: Data Structures, Algorithms, Machine & Deep Learning, Applied Machine Learning, OOP and Design