

Arijit Chakma

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Skills

Programming Languages: Python, TypeScript (Advanced); Go, C++, C#, SQL (Intermediate)

Backend / Infrastructure: AWS (Lambda, Step Functions, S3, API Gateway, DynamoDB), Docker, PostgreSQL, MongoDB

Frontend / Mobile: React, Next.js, Redux, Tailwind CSS, Material UI, React Native, Expo

AI / ML: PyTorch, Transformers, LangGraph, Hugging Face, NumPy, Pandas, Weights & Biases

Experience

KBRA

Incoming Software Engineer Intern

NYC, NY

Apr 2026 – Sep 2026

- Will develop internal software systems for financial services and credit ratings workflows.

Drexel Visual Intelligence Lab

Undergraduate Researcher (Advisor: Dr. Feng Liu)

Philadelphia, PA

Apr 2025 – Sep 2025

- Conducted research in controllable image generation, human–AI interaction, and multimodal AI.

- **First author** on two research papers; led model design, dataset construction, experimentation, and manuscript preparation.

Bristol Myers Squibb

Software Engineer Intern

Princeton, NJ

Apr 2024 – Sep 2024

- Developed **5+** distributed **ETL** pipelines using **AWS** services, processing **10K+** employees data with **70%** higher accuracy.

- Automated IAM offboarding for **1,250+** **users** via AWS Lambda and Puppeteer, reducing manual effort by **90%**.

- Built internal tooling using **React & AWS** for automated DataZone access management, cutting approval latency by **80%**.

- Migrated **1.3 TB** of data from DynamoDB to Athena using Python, saving **8+** analyst hours per week.

Develop for Good

Software Engineer

Remote

May 2024 – Aug 2024

- Built responsive web features using **React**, **TypeScript**, and **Firebase**, improving load time by **40%**.

- Migrated **1000+** lines of Javascript legacy codebase to TypeScript, enhancing reliability and maintainability.

Projects

TickerMaster [\[Link\]](#)

– Multi-agent financial AI sandbox

React, FastAPI, WebSockets, Supabase, Modal

- Built real-time research engine combining market data, social sentiment, and prediction signals.

- Developed multi-agent trading simulator with live streaming and automated signal tracking.

DenEyes [\[Link\]](#)

– Robot for early ADHD detection

Raspberry Pi, OpenCV, MediaPipe, Python

- Built real-time gaze and facial tracking algorithms for an autonomous mobile robot using OpenCV and YOLO.

WoundWatch [\[Link\]](#)

– AI-powered wound analysis app

React Native, Flask, Hugging Face, MongoDB

- Implemented depth estimation and segmentation algorithms to generate 3D wound reconstruction from 2D images.

- Enabled clinicians to perform real-time healing analysis via mobile UI and REST APIs.

Publications

- **Arijit Chakma**, Peng He, Tingting Li, Tiffany D. Do, and Feng Liu, “*DrawSim-PD: Generating NGSS-Aligned Student-Like Drawings for Teacher Diagnostic Training*,” *arXiv preprint arXiv:2602.01578*, 2026.

Awards & Achievements

- **Drexel Global Scholar** – Full-ride merit scholarship awarded to top <0.3% of international students.

- **PennApps 2024** – 1st Place Overall (out of 105 projects), University of Pennsylvania.

- **HopHacks 2024** – 2nd Place Overall (out of 80 projects), Johns Hopkins University.

Education

Drexel University - B.S. in Computer Science (Expected Grad: 2027)

Philadelphia, PA

Relevant Coursework: Data Structures, Algorithms & Analysis, Deep Learning, Machine Learning, Linear Programming, Object Oriented Programming, Design Patterns, AR Programming, Computer Vision