

DEE XIE

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EDUCATION

University of Pennsylvania

Philadelphia, PA

Master's in Computer Science, GPA: 3.9, GRE V162/Q170

2025 – Present

- Awards and Certifications: Wharton AI Product Management Certification, Wharton Venture Lab Startup Award
- Relevant Coursework: Artificial Intelligence, Machine Learning, Machine Perception, Linear Algebra & Optimization

University of Pennsylvania

Philadelphia, PA

Bachelor's in Computer Science & Economics

2019 – 2023

- Relevant Coursework: Algorithms, Computer Systems, Cloud Computing, Databases, Software Design

EXPERIENCE

Software Engineer | *Daimo* | San Francisco, CA

Summer 2026

- Designed and implemented the end-to-end user flows for a crypto banking app, driving new-to-crypto user adoption from onboarding to deposit, withdrawal, and receipt.
- Built responsive onboarding systems for ACH, Interac, Apple Pay, and Cash App payment rails, including multi-step state handling of KYC flows, identity verification, and enrollment tracking using Next.js and TypeScript
- Investigated and resolved crypto settlement anomalies across Ethereum Virtual Machine chains by tracing bridge settlement flows, expired sessions, dormant addresses, and smart-wallet edge cases to reduce reliability issues by 60%
- Led production pull requests and dashboard improvements for transaction visibility, payment lifecycle recovery, and crypto rail onboarding in a TypeScript monorepo

Software Engineer | *Rochelle Labs* | San Francisco, CA

2024 – 2025

- Built an AI-powered t-shirt customization platform using TypeScript, React, Express.js, and generative AI APIs, generating 10,000+ designs for 300+ customers
- Implemented an automated marketplace research pipeline in Python that synthesized consumer behavior and reduced product evaluation time by 90%
- Integrated CI/CD infrastructure using AWS EC2, DynamoDB, Nginx, and Linux deployment scripts to maintain 99.9% uptime under scale

Full Stack Engineer | *Captain* | San Francisco, CA

2023 – 2024

- Developed internal tooling using TypeScript and SQL to automate product recommendation workflows, saving 50+ hours weekly
- Engineered an automated data ingestion pipeline that accelerated research and communication by 20x

iOS Developer | *Grampus Grinders* | San Francisco, CA

Summer 2022

- Implemented optimized shopping cart data structures in Swift using hashable custom objects, reducing latency by 60%
- Designed social media and payment integrations that increased customer engagement by 85%

PROJECTS

ReadyVision | CNNs, Deep Learning

- Designed a convolutional neural network for sports image classification achieving 95% validation accuracy

Market Watch | RNNs, Time-Series Modeling

- Developed recurrent neural network models to predict S&P 500 movement and explain 87% of signal variance

Gerrymandering Election Explorer | SQL, Data Modeling

- Simulated alternative precinct boundaries using complex SQL queries to model 100+ electoral outcome scenarios

Pennbook | Apache Spark, Distributed Systems

- Built a social media platform using Apache Spark to recommend content across 10,000+ posts

Unite and Conquer | Express.js, MongoDB

- Developed an online marketplace platform with authentication, messaging, and secure backend infrastructure

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Swift, R, C, C++, SQL

Frameworks & Libraries: React.js/Native, Node.js, Express.js, Next.js, Tailwind CSS, PyTorch, TensorFlow

Infrastructure & Tools: AWS, Docker, MongoDB, DynamoDB, Spark, Git, Linux, Nginx, Claude, Codex

Other: CI/CD, Distributed Systems, REST APIs

INTERESTS

Scratch golfer (2-time Junior All-American)

Rubik's Cube speedsolving (18-second personal best)