Kevin Pho

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EXPERIENCE

DevOps Software Developer and Data Analyst Intern
Instinet

New York City, NY
May 2020 - Aug 2020

◇ Worked on NXT Gateway (a low-level FPGA trading platform) to develop an improved version of the legacy **logging system** in Python

◇ Wrote a **testing server** with new "line driver" clients (with compatibility to the older clients) in Python for **encoding/decoding transaction packets into the Financial Information eXchange** (FIX/SBE) standard for flexibility, scalability, and future-proofing as more "fintech" companies transition to the new system

◇ Helped **migrate** the codebase from SVN to Git via Gitlab during the 10 week-internship (was offered additional 3-week extension on top of that and a return offer for the coming summer)

Backend Software Developer
Boon by SnackHack

Cambridge, MA
Apr 2020 -

◇ Hired by a **startup** from the **MIT Sandbox** (Innovation Fund Program from MIT Innovation Initiative), having set up an AWS and Expo environment for Boon, **a mobile app for users to connect to communities to offer/request favors**

◇ Implemented an **AWS Amplify app** with Cognito authentication, AppSync APIs, DynamoDB data management, and S^3 storage and co-built the foundation for the codebase's backend (invited to join MIT delta v for the coming summer)

◇ Wrote the **GraphQL schema** for the database as well as custom queries/mutations needed to push data to the clients

◇ Co-implemented a **Redux store for locally caching** all fetched data into a global state across the app, authentication behaviors, and automatic data initialization for users

◇ **Integrated all API calls** to the React Native frontend via JavaScript (ES10)

◇ Communicated and **collaborated** with the development and marketing team through Slack, Notion, and GitHub

6.009: Fundamentals of Programming Laboratory Assistant
Massachusetts Institute of Technology

Cambridge, MA
Sep 2019 -

◇ Guiding students in **software projects** and debugging in the Fundamentals of Programming course at Massachusetts Institute of Technology (MIT) after being selected for my performance in the class and my ability to understand and explain computer science concepts

◇ Teaching **data structures, algorithmic design, and optimization**, from optimal storage in trees/tries to search algorithms, currently on the fourth semester of teaching

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EDUCATION & ACADEMICS

Massachusetts Institute of Technology (MIT)
[6-2] Electrical Engineering & Computer Science (Bachelor's, Sophomore)

Cambridge, MA
Aug 2018 – Jun 2022

◇ Relevant Coursework: Elements of Software Construction, Dynamic Computer Language Engineering, Introduction to Algorithms and Data Structures, Introduction to Machine Learning, Computation Structures, Artificial Intelligence, Mathematics for Computer Science, Computation Structures, Fundamentals of Programming, Introduction to EECS via Interconnected Embedded Systems

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ADDITIONAL PROJECTS, ACTIVITIES, & SKILLS

◇ **Skills**: Python, C/C++, Java, HTML/CSS/JavaScript/Node.js, C#, Golang, Git, MS-DOS/Unix/ROS, networking, distributed systems, scalability (Docker, Kubernetes), cybersecurity, cryptography, backend development (databases, servers), cloud computing (AWS, GCP), machine learning (scikit-learn, PyTorch, Tensorflow, Keras)

◇ **Projects**: Mens et Manus (autonomous car), GUI-tar (guitar teaching IoT device), Battlecode (AI bot) x2, Aster (social tracker React web app hosted on Heroku), Boon (favors social network)