Kevin Pho

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EXPERIENCE

Full-Stack Web Developer and Software Engineer
Cambridge, MA

MIT - Software Studio   *Dec 2021*

◇ Worked on a full-stack web application, focusing on the backend, writing the business layer code, including the **routes and middleware in Express.js** to support a **REST API to our PostgreSQL model**

◇ Implemented frontend **state management via Vuex stores** to interact with our Vue components to produce a clean UI view that is controlled via an **automatic caching policy** to minimize latency due to asynchronous data fetches

◇ Developed software through a **Git pipeline** that ultimately **deployed to Heroku** in the cloud, writing **scripts to automate** the build process to set up our Postgres database server and Express.js web server to work with the Vue frontend

◇ **Integrated** and tested the frontend and backend iteratively, primarily at the Vuex-Express.js layer

DevOps Software Developer/Engineer and Data Analyst Intern
New York City, NY

Instinet   *May 2020–Aug 2020, May 2021–Aug 2021*

◇ 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)

◇ Invited back for a **return offer** the next year to extend project to **auto-generate C++ templates** to improve integration with the existing codebase

Backend Software Developer/Engineer
Cambridge, MA

Boon by SnackHack   *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

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EDUCATION & ACADEMICS

Massachusetts Institute of Technology (MIT)
Cambridge, MA

Electrical Engineering & Computer Science + Music (Bachelor's of Science, Double Major, Super-Senior (Fifth Year))   *Aug 2018 – Jun 2023*

◇ Relevant Coursework: Design and Analysis of Algorithms, Electromagnetic Waves & Applications, Software Studio, Digital &Computational Photography, 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