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Permanent Address *hidden*

Education	Massachusetts Institute of Technology, GPA: 4.9/5.0 B.S. in Electrical Engineering and Computer Science Coursework: Design and Analysis of Algorithms, Machine Learning, Computational Biology, Machine Learning for Molecular Engineering, How to Make Almost Anything, Organic Chemistry	Expected 2022
Experience	 Software Engineer, Broad Institute, Cambridge, MA Developed a web application to simplify FEP calculations for protein-ligand binding. Interfaced with compute nodes in Google Cloud Platform to automatically scale to the number of outstanding jobs. Written in React for frontend and Python for backend scripts. 	Summer 2020
	 NLP and Software Engineering Intern, Blue Fire AI, Hong Kong Developed internal Python package to streamline the natural language processing pipeline, enabling faster iteration and consistency in commonly used language routines, such as text segmentation. Applied state-of-the-art language models to Mandarin financial news sources to extract salient and unique events within articles. 	Summer 2019
	 Software Engineering Intern, Nasdaq, Boston, MA Created a web framework and SDK for using Nasdaq financial microservices (e.g. Matching Engine) to accelerate development of new services (e.g. Sports Betting). Built with Java Spring Boot and React. Used Docker, Kubernetes, and Helm to deploy a beta version of the site for internal demos to validate the value of the project. 	Winter 2019
	 Software Engineering Intern, Fireflies.ai, San Francisco, CA Used topic models and word vectors to implement semantic search within transcribed conference calls. Designed, built, and shipped the front-end user interface for viewing transcribed calls within a team organization. 	Winter 2018
Projects	 OpenAI Agents, algorithms for reinforcement learning Implemented various reinforcement learning (RL) algorithms, including deep Q-networks (DQN), proximal policy optimization (PPO), and asynchronous advantage actor-critic (A3C), using PyTorch and TensorFlow. 	Summer 2018
	 Redirect2, a low dependency custom URL shortener Developed for various clubs to allow important links to be more easily remembered. Written in Node.js. Dockerized for easy deployment. Github: https://github.com/mattfeng/redirect2 	Summer 2018
Technical Skills	Languages: Python, C++, HTML, CSS, JavaScript, TypeScript, Bash Node.js, Express.js, React, Amazon Web Services (ECS, Batch), Kubernetes, Docker, ElasticSearch, PyTorch, NumPy, Pandas	