KEN NOH | SOFTWARE ENGINEER

(650) 862-2534 | khnoh@brown.edu | linkedin.com/in/khnoh | github.com/SquareDorito

EDUCATION

Brown University – *Providence, Rhode Island*   Sep 2016 – May 2020
B.S. Computer Science, Major GPA: 3.9
Relevant Coursework:

Statistical Inference	Artificial Intelligence	Design/Analysis of Algos	Design/Implementation of Prog Langs
Computer Systems	Machine Learning	Web Applications	Data/Computational Science (*Master's*)
Operating Systems	Deep Learning	Game Engines Development	Monte Carlo w/ Financial Applications

EXPERIENCE

Two Sigma Securities – **Trading Engineering Intern**   May 2019 – Aug 2019
- Worked on the Market Making Index Arbitrage Trading Systems Team; developed a full-stack application to provide a fast, normalized, and centralized way to manually monitor all of Two Sigma Securities' trading activity.
- Built a RESTful Python API and front-end with optimized search capabilities to handle over 15 million orders per day.

AIBrain, Inc. – **Software Engineering Intern**   Jun 2018 – Aug 2018
- Created a semantic clustering module which was used in the *Memory Graph* product to trigger self-reorganization of phrase data stored in an acyclic graph structure.
- Implemented the *skip-thoughts* embeddings model which improved categorical accuracy of phrase data by over 15% and reduced memory usage by over 10% in the *Memory Graph* product.

Brown University CS Department - **Teaching Assistant**   May 2018 – May 2019
- Served as a teaching assistant for *CS1410* (Artificial Intelligence) and *DATA2040* (Data & Computational Science).
- Responsible for creating and updating assignments, grading homeworks and exams, and holding weekly office hours.

Salomon Laboratory – **Software Engineering Intern**   Jun 2017 – Sep 2017
- Streamlined the proteomics pipeline by implementing *Andromeda* and *MaxQuant* to improve sequencing time and depth.
- Moved quantitation up into the pipeline and used R's parallel library to remove bottlenecks caused by richer data types.

AnyMeal, Inc. – **Software Developer**   Jun 2013 – Jan 2014
- Created a web portal and desktop app for restaurant owners to upload and customize their menu's appearance.
- Built a web scraper to automate the menu uploading process, reducing average customer onboarding time by 30%.

PROJECTS

DobbyBot – *Cryptocurrency Trading Bot*
- Built a cryptocurrency trading bot supported on *Binance* implementing simple triangular arbitrage and momentum tactics.
- Created a UI to monitor bot's activity, track current positions, change trading tactics, and pause/resume trading.
- Developed a Python framework to test tactics on historical data and run data analytics to discover new tactic ideas.

Stuff Going Down – *A personalized way to view global news*
- Developed a full-stack application with a world map which updates with live news and social media pins. Content is customizable and upvoting/downvoting content results in increased/decreased chances of seeing similar stories.
- Implemented additional features such as: search, sentiment heatmaps, dynamic zoom, and sentiment analysis.

Spotify DJ – *Creating the perfect playlist*
- Developed a full-stack app which analyzes user's public playlists and Spotify's top charts to create an optimized playlist.
- Used Spotify's API to reorder and update older playlists based on more recent popularity scores.

SKILLS

Languages: C, C++, Python, Java, JavaScript, TypeScript, Pyret, MATLAB
Technologies: SQL, Git, Node.js, React/Redux, TensorFlow, Flask

AWARDS

Jane Street Electronic Trading Challenge 2018 – *1st Place Overall*
AMC12 2014 – *Distinguished Honor Roll (Top 1%)*
USA College Ultimate – *2018 D-I Second Team All-Region (NE), 2019 D-I National Champion*