Ken Noh

Education

Brown University

09/16 - 05/20 (expected)

- · B.S. Computer Science
- Departmental GPA: 4.0/4.0 | Overall GPA: 3.84/4.00

Relevant Coursework:

- Linear Algebra
- Multivariable Calculus
- Algorithms | Data Structures

- Computer Systems
- Software Engineering
- Creating Modern Web Apps

- Artificial Intelligence
- 3D Game Engines
- Data & Computational Science (Master's)

Experience

Software Engineering Intern @ AlBrain, Inc.

06/18 - 08/18

- Built a Semantic Clustering module for the Memory Graph product using Keras, TensorFlow, and Apache Spark. Used the module to trigger self-reorganization of memory stored in an acyclic graph.
- Implemented the skip-thoughts encoder/decoder model in Keras using bidirectional GRU's to produce accurate sentence embeddings.
- Improved the Summer City Unity demo for fAutonomy by adding a marketplace-driven economy. Trained intelligent NPCs (non-player characters) with goal-based planning combined with deep neural networks to create a competitive lifestyle simulation using the C++ API.

Undergraduate Teaching Assistant @ CS1410

05/18 - 12/18

- UTA for CS1410: Artificial Intelligence sponsored by Brown's Department of Computer Science.
- Held weekly hours to help students with concepts and debugging, graded assignments & exams.
- Updated assignments by adding I/O testing functionality, visualization, and solution code.

Software Developer @ Salomon Laboratory

06/17 - 09/17

- Wrote R and Python scripts to parse and perform ANOVA analysis on mass spectrometry data which computed normalized heatmaps for phosphoproteomics experiments.
- Implemented Andromeda and MaxQuant in the automated pipeline to improve sequencing depth.
 Used R's Parallel library to remove bottlenecks in quantitation caused by the new, richer data types.
- Worked with the Peptide Depot relational database to create a GUI for the lab's statistical tools.

Web Developer @ AnyMeal, Inc.

07/13 - 01/14

- Designed a web portal using Node.js for restaurant owners to upload and customize their menu's appearance. Experimented with Node Webkit to create a desktop version of this portal.
- Built a web scraper with text parsing in Python to streamline the menu uploading process.
- · Worked directly with clients and the developer team to rigorously test the product until release.

Stuff Going Down - Personalized Global News

03/18 - 05/18

- A world map which updates with live news and social media pins. Content is fully customizable as
 upvoting content increases the chances of similar content being displayed.
- Features: multiple user support, search, grouping densely pinned areas with clusters, displaying heatmaps based on sentiment, dynamic zoom, and upvoting & downvoting.

Technology: Java, Spark, JavaScript, HTML/CSS, D3.js, websockets, Google Maps API

Maps - A lightweight implementation of Google Maps in Java

01/18 - 03/18

- An interactive map GUI created using a combination of k-d trees, dynamic graph structure, and grid-based caching with HTML canvas. Imports data from the OpenStreetMap database.
- Features: navigation, traffic data, panning, zooming, and search with smart autocorrect. Technology: Java, Spark, JavaScript, SQLite3, Canvas

XAMulator - Secure Testing Portal

06/15 - 12/15

- An education tool designed to replace paper tests through creating and taking tests online.
- Program consisting of a web portal for teachers to upload/create tests and a desktop client for students
 to take tests on and view results. Locks the screen during test-taking to prevent cheating.

Technology: Node.js, node-webkit, JavaScript, MySQL, Passport

Skills Awards

Activities

Projects

- Java, Python, C, C++, JavaScript, R, SQL, Git, Node.js, React.js, Keras
- 2nd Place Jane Street ETC 2018, 2nd Team All Region (NE) USA College Ultimate 2018, Distinguished Honor Roll (Top 1%) AMC12 2014
- Brown University Club Ultimate Frisbee, Guitar, Cello, Calligraphy