Ken Kyung-Hyun Noh

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EDUCATION

Brown University **Providence, RI**
Bachelor of Science in Computer Science, Professional Track September 2016- May 2020
Major GPA: 3.83/4.0

Henry M. Gunn High School **Palo Alto, CA**
GPA: 4.0/4.0 | ACT: 35/36 August 2012 – June 2016

Relevant Coursework

Intro to Algorithms/Data Structures	Artificial Intelligence	Intro to Computer Systems
Topics in 3D Game Engines	Intro to Software Engineering	Advanced Topics in Data Science (Graduate)
Creating Modern Web Apps	Statistical Inference I	Linear Algebra

EXPERIENCE

Brown University, Salomon Laboratory **Providence, RI**
Programmer, *Computational Biology* June 2017 – September 2017

- Wrote various R scripts to parse large datasets of mass spectrometry data in order to be statistically analyzed
- Implemented the Andromeda engine and MaxQuant into the automated pipeline to improve sequencing depth
- Worked with Peptide Depot, a relational database, to add the ability for normalized heatmap generation

Stanford University, Nadeau Laboratory **Stanford, CA**
Research Assistant, *Immunology* June 2014 – April 2016

- Participated in lab-wide studies and developed/completed two independent research projects relating to peanut allergy
- Helped defined T-cell phenotype shifts in peanut-allergic patients over the course of oral immunotherapy treatment
- Learned sterile lab technique and the proper usage of equipment in the context of various assays (BAT, Ficoll, etc.)

AnyMeal, Inc. **Palo Alto, CA**
Web Developer July 2013 – January 2014

- Designed frontend content, which included a client-side portal for menu alteration and the app's landing page
- Connected client-side portal with backend using JavaScript in order to generate dynamic menu editing pages
- Worked directly with clients and other developers to rigorously test and improve the design & vision of the product

PROJECTS (See more at kennoh.com & github.com/SquareDorito)

Q Value Software
https://github.com/SquareDorito/qValue

- Built software for the Salomon Lab to calculate q value statistics to aid normalized heatmap building
- Program parsed peak area XML files, then created data frames to construct linear models using ANOVA analysis

Noisy Touchscreen Data Filtration
Code available on request.

- Created an adjusted hidden Markov model to help filter noisy touchscreen data using probability distributions
- Implemented features such as momentum tracking and directional influence to identify the real location of finger

'XAMulator': An Online Testing Suite
https://github.com/XAMulator/XAMulator

- Built a secure online testing portal using a combination of MySQL, node.js, and node-webkit technologies
- This project included a teacher web portal, along with a desktop client designed for students to prevent cheating

SKILLS

Languages: English, Korean
Technical: C, C++, Python, Java, JavaScript, R, HTML, CSS, React.js, Node.js, SQL, Git, FileMaker Pro