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 (expected)*
- GPA: 3.75/4.0

Relevant Coursework

Introduction to Object Oriented Programming and Computer Science, Introduction to Algorithms and Data Structures, Introduction to Computer Systems, Data Fluency for All, Statistical Inference I

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

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 and completed two independent research projects
- 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
- 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
- Works by parsing peak area XML files, then creating data frames to construct linear models for ANOVA analysis

Quantitation Parallelization through R

https://github.com/SquareDorito/Quantitation_Parallelization
- Parallelized several quantitation processes used in loading data into Peptide Depot, using R's parallel library
- Increases efficiency by running jobs equal to the number of available cores minus 1, removing bottlenecks in the pipeline

Quantitative Trading and Finance Analysis Tool

https://github.com/SquareDorito/QuantitativeTrading_R
- Built software to analyze stocks using regression models derived from sample sets and random normal variables
- Added HTML and PDF generation, allowing for a quick and easy way to share and view the preformed statistics

'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
- Teachers upload tests from a web portal, students then take tests on a desktop client which prevents switching windows

SKILLS

Languages: English, Korean
Technical Skills: C++, Python, Java, JavaScript, R, HTML, CSS, Git, FileMaker Pro