ALEX (SANGHYEON) AHN

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EDUCATION

Johns Hopkins University   **Baltimore, MD**
Bachelor of Science, in Computer Science & Applied Mathematics and Statistics   Expected in May 2018
- Cumulative GPA: **3.92**/4.00
- Relevant Coursework: Machine Learning, Data Mining, Parallel Programming, Web Information Retrieval, Practical Data Science, User Interface & Mobile App, Algorithms, Data Structures, Statistics, Probability, Optimization, Linear Algebra

EXPERIENCE

Escalus   **Washington, DC**
Software Engineer   Dec 2016 – Present
- Created a baseline prediction model for legal analytics in judicial decisions made in U.S. Court of Appeals for the Federal Circuit.
- Building data ETL pipeline from various sources including web and text form data, to form an instance matrix for training a model.

Department of Computer Science, JHU   **Baltimore, MD**
Research Assistant   Aug 2016 – Present
- Developed a machine learning based prediction model by scraping, modifying, and sampling raw data (from MLB Gameday) using R (PitchFx), training labeled data (~20 features & ~10,000 instances) in Python, and conducting cross-validation and ROC for evaluation.
- Constructing a model to predict the *next pitch ball type* using kernel SVM multi-class (one vs. rest) classification algorithm.

Youniv.io   **Baltimore, MD**
Software Engineer   May 2016 – Aug 2016
- Wrote a program in JavaScript that optimally visualizes a network of multi-dimensional-nodes on HTML Canvas.
- Devised a program for producing optimized coordinates for each node and edge curve point by calculating collisions and minimizing noise.

Standard Chartered Bank   **Seoul, Korea**
Data Analyst Intern   Aug 2013 – Nov 2013
- Assorted product sales data (~$3.5billion/yr) from the database, conducting linear regression analysis for sales projections.
- Summarized recent sales trends, estimated future revenues, and identified potential target clients (sales flux over 15%) on weekly basis.

PROJECTS

Social Dating Matching and Clustering   **Baltimore, MD**
- Modeled a predictor classifying dating candidates as potential or non-potential match based on demographic attributes and preferences.
- Constructed an ensemble learning model (online SVM and K-means clustering), enhancing prediction accuracy up to 85.2%.

Unlock   **Baltimore, MD**
- Devised a business plan for connecting local cafes with consumers to make the process of ordering coffee efficient and interactive.
- Currently developing the front-end of the *Unlock* mobile application with react-native, and the back-end with Django.

LEADERSHIP

Alpha Kappa Psi (Rho Psi Chapter)   **Baltimore, MD**
Director of Entrepreneurship (Past: Entrepreneurship Chair)   May 2016 – Present
- Organized and facilitated a business incubation project developing 3 startups from the proposal stage to investor pitch presentations.

Department of Computer Science, JHU   **Baltimore, MD**
Course Assistant, Intro to Machine Learning (EN.600.475)   Jan 2017 – Present
- Created a tutorial for Scikit-learn to engage students in utilizing resources to apply machine learning tools to analyze real world datasets.
- Instructed students to understand the mathematical backgrounds and algorithmic techniques behind machine learning tools.

Department of Computer Science, JHU   **Baltimore, MD**
Course Assistant, Data Structures (EN.600.226)   Aug 2016 – Dec 2016
- Instructed ~10 students 2 hours every week, teaching course materials and code implementations such as Red & Black Trees and graphs.
- Reviewed and debugged ~10 packages per week for grading assignments, also providing feedback on style, efficiency, and testing.

Center for Leadership Education, JHU   **Baltimore, MD**
Course Assistant, Oral Presentations (EN.661.205)   Jan 2016 – Dec 2016
- Taught classes on how to develop public speaking skills and how to utilize tools, coaching students based on their weekly presentations.

SKILLS

LANGUAGES	Java (proficient), Python (proficient), C++ / C (intermediate), R, JavaScript, HTML, CSS, SQL (basic)
ENVIRONMENTS	Git, Linux, Eclipse, RStudio, MATLAB, VirtualBox, LaTeX, Microsoft Excel (proficient)

INTERESTS

Bartending, Barista, Photography, Design, Singing, Fashion, Coffee (ask me any coffee and I'll know)