

HUGH HAN

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EDUCATION

Johns Hopkins University
M.S.E., Computer Science, '19
focus in machine learning
B.S., Computer Science, '18
minor in applied mathematics

RELEVANT COURSEWORK

GRADUATE

Theoretical Computer Science
Machine Learning
Deep Learning
Vision as Bayesian Inference
Natural Language Processing
Artificial Intelligence
Parallel Programming

UNDERGRADUATE

Real Analysis
Introductory Probability Theory
Introductory Statistics Theory
Combinatorics & Graph Theory
Operating Systems
Computer Networks
Compilers & Interpreters
User Interfaces & Mobile Apps
Web Development & Design

SKILLS

PROGRAMMING LANGUAGES

C/C++, Python, Java,
JavaScript, Swift

TOOLS & FRAMEWORKS

Flask, Django, React, XCode,
Vim, Git, MATLAB, L^AT_EX

HONORS & AWARDS


Feb '17 **2nd Place, Overall**
HopHacks


Dec '16 **hackNY Fellow**
hackNY.org


May '14 **Northrop Grumman Engineering Scholarship**
Northrop Grumman Corporation


Mar '13 **USACO Silver Division**
USA Computing Olympiad


EXPERIENCE - INDUSTRY


 **Palantir** london, uk
incoming forward deployed engineer intern fall '18

 **Dropbox** san francisco, ca
software engineer intern summer '18
· Working on `mypyc`, a Python-to-C compiler using `mypy` annotations.

 **Microsoft** redmond, wa
software engineer intern, *azure database* fall '17
· Built a pipeline to stream PostgreSQL server logs to Azure Monitor.

 **MongoDB** new york, ny
software engineering intern, *distributed systems* summer '17
· Asynchronized the automatic chunk-splitting operation for sharded collections.
· Reduced duplicate work done and network calls made by `mongos` nodes.
· Built non-deterministic concurrency test suites for MongoDB sharding commands.

 **Bloomberg LP** new york, ny
financial software developer intern, *internal systems* summer '16
· Extended a backend customer support routing service for Bloomberg Analytics.
· Implemented features for the `ADSK<GO>` terminal function from the ground up.

 **Johns Hopkins Applied Physics Laboratory** laurel, md
research analyst intern, *air & missile defense* summer '15
· Increased the time performance of a weapon-tracking algorithm by over 10x.
· Improved the statistical reliability of a radar simulator by over 1000x.
· Built a self-optimizing Kalman filter & data visualization tool for threat data.

EXPERIENCE - ACADEMIA

Center for Language & Speech Processing baltimore, md
research assistant spring '17
· Working on machine learning research regarding Twitter location data.
· Extending features for the open-source Carmen project.

Johns Hopkins Department of Computer Science baltimore, md
teaching assistant fall '15 - spring '18
Aided in lecture, led review sessions, and graded coursework for:
[fall '15] : CS 226, Data Structures,
[fall '16] : CS 463, Analysis of Algorithms.
[spring '18] : CS 107, Introductory Programming in Java

PROJECTS

Nexus | devpost.com/software/nexus [Spark, Kafka, NLTK, neo4j, Elasticsearch, Flask, Angular]
Streams news articles in real-time, using a conditional random field to tag related entities and construct knowledge graphs. Hidden connections between businessmen, politicians, etc. are made visible in these knowledge graphs, which are made accessible via the Nexus API and web client.

Semesterly | semester.ly [PostgreSQL, Django, React/Redux]
University course scheduling platform. 470,000+ unique timetables created, 4,800+ user accounts, and 1,900+ 30-day daily active users. Open-sourced in August '17, and currently supporting 8 universities across the US and Canada.