

# Kevin Chen

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## EDUCATION

### UNIVERSITY OF MARYLAND MS + BS IN MATHEMATICS AND COMPUTER SCIENCE

Expected May 2020  
Departmental Honors

## LINKS

github.com/kevchn  
linkedin.com/in/kevchn  
kevchn.com

## COURSEWORK

### GRADUATE

Advanced Algorithms

### UNDERGRADUATE

Machine Learning  
Design and Analysis of Algorithms  
Advanced Functional Programming  
Organization of Programming Lang  
Introduction to Algorithms  
Introduction to Systems  
Discrete Mathematics  
Object Oriented Programming I/II  
(Teaching Asst)  
Introduction to Algorithms

### MATHEMATICS

Linear Algebra  
Introduction to Linear Algebra  
Multivariable Calculus  
Introduction to Probability Theory

## SKILLS

### PROGRAMMING

Experienced:  
C/C++ • Python • Java  
Familiar:  
OCaml • Haskell • Scala  
Golang • Javascript

## EXTRACURRICULAR

Startup Shell, taught stats/ml  
MLatMD, led reading club  
Bitcamp, directed travel

## EXPERIENCE

### MICROSOFT | SOFTWARE ENGINEERING INTERN

May 2018 – Aug 2018 | Seattle, WA

- Developed Azure confidential computing with SGX enclaves in C++
- Created confidential key derivation service for Azure Service Fabric
- Implemented algorithms for leader election/consensus for Azure clusters

### BLACKFYNN | SOFTWARE ENGINEERING INTERN

June 2017 – Aug 2017 | Philadelphia, PA

- Developed backend architecture for cloud neuroscience platform in Scala
- Wrote ETL and EEG analysis pipelines in Spark/Python/SQL

### NATIONAL CANCER INSTITUTE | RESEARCH INTERN

June 2015 – Aug 2016 | Washington D.C

- Coauthored paper on computational omics and awarded \$10k grant for developing cloud omics tool

## TEACHING

### CMSC389F: REINFORCEMENT LEARNING | INSTRUCTOR

Jan 2018 – May 2018 | College Park, MD

Teaching an official UMD for-credit class on reinforcement learning techniques

### CMSC351: ALGORITHMS | TEACHING ASSISTANT

Aug 2017 – Dec 2017 | College Park, MD

Taught students about the fundamentals of algorithms under Professor Hajiaghayi

### CMSC422: MACHINE LEARNING | TEACHING ASSISTANT

Aug 2018 – Present | College Park, MD

Will teach students about statistical machine learning under Professor Regli

## RESEARCH

### OPTIMIZATION & REINFORCEMENT LEARNING | RESEARCH

Jan 2018 – Present | College Park, MD

Working with Prof Goldstein on evaluating the role of momentum in generalization in deep nets and finding sparse reward reinforcement learning methods.

## PUBLICATIONS

### CYTOPLASMIC DROSHA ACTIVITY GENERATED BY ALTERNATIVE SPLICING | NUCLEIC ACIDS RESEARCH

L Dai, K Chen, B Youngren, J Kulina, A Yang, Z Guo, J Li, P Yu, S Gu

## AWARDS

2017	1 <sup>st</sup> /300+	HopHacks Grand Prize Winner, Johns Hopkins
2016	National	National Merit Finalist and Scholar
2016	State	Maryland Delegate Scholarship