

# Vincent Song

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## EDUCATION

### UNIVERSITY OF MARYLAND

B.S., COMPUTER SCIENCE

MINOR, LINGUISTICS

December 2019 | College Park, MD

## LINKS

Github:// [vwsong](#)

LinkedIn:// [vwsong](#)

Website:// [vwsong.com](#)

## COURSEWORK

CMSC451: Advanced Algorithms

CMSC498C: Randomized Algorithms

CMSC330: Functional Programming

LING311: Syntax

LING321: Phonology

## SKILLS

### PROGRAMMING LANGUAGES

Java • PHP • HTML/CSS • JavaScript •  
SQL • Python •  $\text{\LaTeX}$

### FRAMEWORKS/TOOLS

Node.js • Flask • JQuery • MySQL •  
Hive/Presto

## ACTIVITIES

### BITCAMP | EXECUTIVE DIRECTOR

Coordinated over 60 student organizers and several teams: logistics, technology, sponsorship, marketing, and others to run the University of Maryland's flagship hackathon.

### UNIVERSITY OF MARYLAND | TEACHING ASSISTANT

Piloted new flipped classroom model for CMSC 131: Intro to Object Oriented Programming I, under Professor Bill Pugh.

## EXPERIENCE

### SNAPCHAT | SOFTWARE ENGINEERING INTERN

Summer 2019 | Seattle, WA

- Wrote CSV parser to process millions of products per day, estimated to grow 10-50x in the upcoming year. Handles deduping, sorting, and partitioning for concurrent processing.
- Built end to end service to detect, store, and service errors generated by clients in our Product Catalog Service.
- Optimized metrics collecting, saving organization an estimated \$6000/month.

### FACEBOOK | SOFTWARE ENGINEERING INTERN

Summer 2018 | Seattle, WA

- Built a custom sampling logging framework specialized for waterfall processes. Adopted/implemented by most logging frameworks in our org codebase.
- Built debugging tool to help devs force content through our illegal firearms/drug sales detection infra + display all relevant logging.

### NEXTDOOR | SOFTWARE ENGINEERING CO-OP

Spring 2018 | San Francisco, CA

- Implemented sponsored posts pagination on mobile, leading to a projected 30% increase in ads inventory.
- Built internal tool to force multiple promos into any user's feed, designed for development purposes

### NORDSTROM | SOFTWARE ENGINEERING INTERN

Summer 2017 | Seattle, WA

- Owned and built an internal tool to monitor core API health.
- Designed and built a new system top-down to more efficiently store and deliver non-inventory item codes from AWS.

## SELECTED PROJECTS

### SMART SALES | NORDSTROM INTERNAL HACKATHON

June 2017 | Seattle, WA

- Built an algorithm that used subscription data to generate sales.
- Would be able to target any demographic while minimizing revenue loss differential.

### LANGUAGE DETECT

May 2017 | College Park, MD

- Used n-gram profiling to analyze samples of training corpuses to build language profiles for language text recognition apps.

### SCENTRY | VTHACKS

March 2016 | Blacksburg, VA

- Created a web platform that allows a user to control a fleet of air fresheners on a smartphone or PC over the internet.

### NOSTALGIFY | MHACKS REFACTORED

February 2016 | Ann Arbor, MI

- Built a webapp that, given a date, generated a playlist of songs that the user listened to around that time.