

# Vincent Song

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## EDUCATION

### UNIVERSITY OF MARYLAND

B.S., COMPUTER SCIENCE

MINOR, LINGUISTICS

May 2019 | College Park, MD

## LINKS

Github:// [vwsong](#)

LinkedIn:// [vwsong](#)

Flickr:// [vwsong](#)

Website: [vwsong.com](#)

## COURSEWORK

Linear Algebra

Algorithms

Systems Engineering

Functional Programming

Discrete Math

## SKILLS

### PROGRAMMING LANGUAGES

Java • HTML/CSS • JavaScript • SQL

OCaml • Python •  $\LaTeX$

### FRAMEWORKS/TOOLS

Node.js • ASP.NET • Flask • JQuery •

MySQL • AWS Aurora • AWS Lambda •

Express.js • MongoDB

## 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

### NORDSTROM | SOFTWARE ENGINEERING INTERN

June 2017 – August 2017 | Seattle, WA

- Owned and built an internal tool to monitor core API health.
- Created a Slackbot and implemented email notifications to watch for API health deterioration.
- Migrated and transformed/modernized over 26k rows of data from legacy MS SQL on-premise database to a new schema on AWS Aurora.
- Used in-memory storage (Elasticache/Redis) to dramatically decrease API latencies for internal downstream consumers.

### PRAXIS ENGINEERING | IoT RESEARCH INTERN

December 2016 – January 2017 | Annapolis Junction, MD

- Analyzed two common wifi webcams and documented recorded vulnerabilities.

### SPARKPOST (MESSAGE SYSTEMS) | SOFTWARE ENGINEERING INTERN

May 2016 – August 2016 | Columbia, MD

- Refactored the SparkPost PHP client library.
- Created program which uploaded metrics (daily revenue, free/paid accounts, etc) to Keen.io dashboard for company-wide analytics.

### AVESIS | SOFTWARE ENGINEERING INTERN

May 2015 – January 2016 | Owings Mills, MD

- Created exit surveys and compiled data in MS SQL databases for analysis.
- Developed 10+ web pages (FAQs, landing page, etc) for Avesis.com.

## SELECTED PROJECTS

### SMART SALES | NORDSTROM INTERNAL HACKATHON

June 2017 | Seattle, WA

- Built an algorithm that used subscription data to generate sales that would be able to target any demographic while maintaining minimal revenue loss.

### 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.