

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

MATH240: Linear Algebra

CMSC451: Advanced Algorithms

CMSC498C: Randomized Algorithms

CMSC250: Discrete Math

CMSC216: Systems Engineering

CMSC330: Functional Programming

LING311: Syntax

LING321: Phonology

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 alert for API health deterioration.
- Designed a new system top-down to more efficiently store and deliver non-inventory item codes from AWS.
- Wrote AWS Lambdas to update store non-inventory item codes daily.
- Migrated and transformed/modernized over 26k rows of data from legacy MS SQL on-premise database to a new schema on AWS Aurora and Elasticache Redis.

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.
- 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.