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.