Ryan Mavilia

EDUCATION	**University of Maryland, College Park, MD** Graduated: May 2018

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University of Maryland, College Park, MD Graduated: May 2018
Bachelor's of Science in Computer Science GPA: 3.3
Minors: Asian American Studies, Tech Entrepreneurship

SKILLS

Languages: Java, TypeScript, R, SQL, JavaScript, Ruby, PHP
Environments: Node.js, Git, UNIX/Linux, LaTeX

EXPERIENCE

Software Development Intern February 2016 - June 2017
The Efiia Group, Washington D.C
- Created a secure file management app which is currently being tested by the NSA. After testing the app will become one of the first apps created with Rebar, a platform for creating NIAP compliant software.
- Wrote military grade secure software using defensive programming techniques like zeroing out data, encrypting streaming data, and verifying users.

Web Development Assistant September 2015 - May 2016
Microbiology Department, University of Maryland, College Park
- Managed the department website to bring up to date information to students.
- Assisted professors with drivers, malware infections, and network issues.

Programming Instructor May 2015 - August 2015
iD Tech Camps, University of Maryland, College Park
- Taught computer science fundamentals to students ages 7-17 using multiple languages including C++, Java, JavaScript, and Scratch.
- Coordinated camp events, teaching strategies, and course materials.

PROJECTS & LEADERSHIP

NodeNotes *Node.JS, Express, Typescript, MongoDB, EJS, & Bootstrap 4*
- Created website to write/share notes in Markdown and learn routing in Node.JS.
- Due to the use of Node I can begin implementing OAuth login systems from major social media sites for private notes.

Jinx - IRC Bot *Java, ImageIO, & Sockets*
- Chatbot featuring image saving, markov chains, persistent data structures.
- The Markov chains allow users in a chatroom to get a randomized quote from what they've already said.
- Using Java's ImageIO library I can save wallpapers to my laptop from my iPhone.

Baseball Data Visualization *R, Dplyr, & GGPlot*
- This project visualizes spending efficiency and win percentages in the MLB.
- Additionally analyzes Oakland's increased efficiency during "Moneyball" period.

Filipino Cultural Association *Former Webmaster*
- Elected by the general body members to rebuild club website. Also planned events and fundraisers for Filipino Veterans Recognition and Education Project.

Personal Site - http://mavilia.me