Sean Chapman

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EDUCATION

University of Maryland, College Park | *College Park, MD* *August 2017 - May 2021*
B.S. Computer Science
Minor: Astronomy

Relevant Coursework
Computer Systems / Algorithms / Programming Languages / Advanced Data Structures / Data Science / Full-Stack Web Development / Computer Networks + Security / Machine Learning / iOS Development / Concurrency

SKILLS

Proficient in Java, Python, C, Git, UNIX, HTML, CSS, Javascript
Familiar with Node.js, MongoDB, SQL, C#, Swift, Ruby, Scala

EXPERIENCE

Research Intern | *NTU IoX Center (Taipei, TW)* *July 2019 - August 2019*
- Developed VR demos in Unity and C# to analyze novel VR haptics systems.
- Wired and programmed arduinos for prototypes.

Software Engineer Intern | *Wonplanet.com (Palo Alto, CA)* *June 2018*
- Worked on implementation of premium subscription functionality.
- Updated SQL schemas.
- Designed payment processing page with HTML/CSS/Scala/Braintree.

Web Team Lead | *Palo Alto High School Robotics (Palo Alto, CA)* *October 2015 - June 2016*
- Updated information and UI features for the team's website with HTML/CSS/Javascript.

PROJECTS

Blockchain Trivia *December 2018*
- Created a trivia game that runs as a smart-contract on the Ethereum blockchain platform.
- One of three winning projects at Hackital 2018.

Regex Interpreter *April 2019*
- Developed a program that constructs deterministic finite automata from regular expressions, which is then used to match for patterns in strings. Written in OCaml.

Terp Food Reviewer *May 2019*
- Developed a live-updating hub of local restaurant reviews for students at the University of Maryland.
- Utilized Node.js, MongoDB for the back-end. Express, Handlebars, and Javascript for the front-end.

Fast Maze Solver *2021*
- Utilized Java thread-pools and task schedulers to solve large mazes quickly.

Twitter Community Analysis *Fall 2019*
- Performed an analysis of community formation on Twitter using the Python data science stack (Pandas, Numpy, Scikit Learn, NLTK, Matplotlib, NetworkX) along with data collected from the Twitter API.

EXTRACURRICULARS

UMDCTF 2019 *April 2019*
- Participated in a 6-hour on-site cybersecurity hackathon held by students at the University of Maryland.

Hackital 2018 *December 2018*
- One of three finalists at a cryptocurrency-themed hackathon hosted by students at George Washington University. Developed a trivia game that runs on the Ethereum blockchain platform.