

Sean Chapman

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EDUCATION

University of Maryland, College Park | College Park, MD
B.S. Computer Science Minor: Astronomy

August 2017 - May 2021

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, JS
Familiar with	OCaml, Node.js, MongoDB, SQL, C#, Swift, Ruby, Scala

PROJECTS

- **Blockchain Trivia** December 2018
Created a trivia game that runs as a smart-contract on the Ethereum blockchain platform. Written in Solidity. 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
Utilized Node.js, MongoDB, and sockets to create a live-updating hub of local restaurant reviews for students at the University of Maryland.
- **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.

EXPERIENCE

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

Wonplanet | Palo Alto, CA June 2018
Software Engineering Intern - Worked on premium subscription functionality. Updated SQL schemas. Designed payment processing page with HTML/CSS/Scala/Braintree.

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

EXTRACURRICULARS

UMDCTF 2019 April 2019
Participated in a 6-hour on-site cybersecurity hackathon held by students at the University of Maryland. Challenge topics included digital forensics, reverse engineering, steganography, cryptography, and SQL attacks.

Hackital 2018 December 2018
Competed in a 6-hour crypto-currency themed hackathon hosted by students at George Washington University. Developed a trivia game that runs on the Ethereum blockchain platform, one of three winning projects at the event.