

Matthew Cheng

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Education

08/2019 – Present (Spring 2023 expected)

College of William and Mary, Williamsburg, VA – *Bachelor's*

Double Major in Computer Science & Data Science (Data Applications Track)

Current GPA: 3.78

Relevant Coursework: Applied Machine Learning, Deep Learning, Data Structures, Databases, Algorithms, Computer Organization, Time Series Analysis, Probability and Statistics, Software Development, Computer Architecture, Software Engineering

09/2015 - 06/2019

Ocean Lakes High School, Virginia Beach, VA

Graduated with Honors, Math and Science Academy

GPA: 4.13

SAT: 1510 (750 Math, 760 Evidence-Based Reading and Writing)

Languages and Skills

Python, Java, C++, C, R, SQL, Javascript, HTML, CSS, React, Flask, Git, JIRA, Docker, ML, and Agile

Experience

05/2021 – 07/2021

Sitscape, Inc., Remote – *Intern*

- Performed testing with the company's DEEP software platform, providing feedback for usage and finding new bugs to fix
- Created video tutorials for DEEP's UI for future employees and customers
- Contributed to a database of UI feature descriptions
- Helped new employees with their questions and issues regarding UI

02/2022 – 05/2022

Sitscape, Inc., Remote – *Software Development Intern*

- Performed testing with the company's DEEP software platform
- Performed bug fixing in the company's DEEP software platform using Javascript
- Implemented new frontend and backend software features using Javascript
- Used git branching and merging for version control

06/2022 – 08/2022

ADP, Inc., Norfolk, VA – *Application Development Intern*

- Created and deployed a full stack RESTful API to serve as a Network Operations and Management resource in Python using flask, docker, and Kubernetes
- Created and integrated scripts to automate tasks for the ADP Networking Team, including software removal, switch port configuration, and configuration validation.
- Followed the agile software development processes, participating in creating user stories with Jira, attending frequent standup meetings, and maintaining the git repositories for the projects

Projects

Bloc: Web App

- Created a Web Application using Javascript, React, Python, and Flask. This was using the agile software development process and serves as a resource for students looking to organize their schedule, find clubs and organizations to join at school, and receive up to date information and notifications. It also includes a ML recommendation system.

2048

- Recreated the game 2048 as a Java Application. This game can be played by the user or it can run automatically.

Maze Game

- Created a Java maze game that uses Boruvka's Algorithm and Prim's Algorithm to generate mazes of varying difficulty levels for either the user or automated robots to solve. The gameplay takes advantage of multithreading and can be played as a Desktop App or Android App.

Connect Four

- Recreated the game Connect Four as a Java Application. This game has a two player option, as well as a one player option where the user must play against my algorithm.

Code Probing

- Currently working with a group of other students to create a Python library for evaluating Neural Code Models, applying the agile software development process and focusing on test-driven development. This library will provide users with tools to determine the quality and completeness of their models, including Minimum Functionality, Invariance, and Direct Expectation Tests for Robustness, Taxonomy, Logic, and Vocabulary.

Extracurriculars & Volunteering

IBM Introduction to Cloud Computing Certification	2022
Association for Computing Machinery – College of William and Mary	2022
Men's Soccer B Team – College of William and Mary	2022
Williamsburg House of Mercy Volunteer	2022
Men's Volleyball B Team – College of William and Mary	2022
Intramural Soccer – College of William and Mary	2019-2022
Jumpstart Data Science Program – College of William and Mary	2020
Brazilian Jiu Jitsu Club – College of William and Mary	2020
Society of Physics Students – College of William and Mary	2019-2020