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## EDUCATION

**William & Mary** – Williamsburg, VA | May 2024

- B.S. in Computer Science, Math minor. GPA: 3.6, *cum laude*
- Dean's List: Spring 2022, Fall 2022, Fall 2023, Spring 2024

**Florence University of the Arts** – Florence, Italy | January 2024

- Collaborated with students from various universities in projects exploring Italian culture

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## PROJECTS

**Maze Project** - expanded upon an existing code base to create an Android app and automated algorithms for a maze game. Developed extensive unit testing using JUnit to ensure functionality of the app in edge cases.

**Pantry Tracker** - developed a NextJS web app using MUI components that tracks items in a pantry in a Firestore database. Integrated the Reflection70B AI through the OpenRouter API to add a feature to generate recipes based on the items in the pantry.

**Bitcoin Trading Algorithm** - expanded upon an open-source code base to scrape data and process it into a dataset, using machine learning models to predict whether Bitcoin prices will increase or decrease over 1 day, 7 day and 30 day time intervals.

**Network Analysis Project** – collaborated with 4 classmates to collect network traffic data from various sites using Wireshark and employed machine learning models to predict the types of service offered based on features such as network protocols used.

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## RELEVANT COURSEWORK

System programming  
Software Development  
Computer Organization  
Ops Research Deterministic Model  
Probability & Stats for Scientists

Intro to Machine Learning  
Network Systems and Design  
Introduction to Edge Computing  
Finite Automata  
Algorithms

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## PROGRAMMING LANGUAGE EXPERIENCE AND RELEVANT SKILLS

Python  
C++  
XML  
Y86 Assembly (some experience)  
Jupyter Notebook  
Web App Development

Java  
C  
Pascal (some experience)  
Haskell (some experience)  
Android Development  
CSS

ReactJS  
NodeJS  
HTML  
Github  
Linux  
JavaScript

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## WORK EXPERIENCE

**Tile Worker** – R. Bratti Associates | Summer 2020, 2021, Winter 2021

- Prepared floor tiles for contractors to lay at various D.C. area metro station sites with some of the most notable projects being East Falls Church, West Falls Church, Dunn Loring, Greenbelt.
- All metro projects were completed on time.

**Bagger/Courtesy Clerk** – Giant | Summer 2019

- Bagged groceries/Carried groceries to the car for the elderly.
- Performed various roles such as cart collection and item restocking to assist the store where understaffed and developed strong customer service skills.

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## VOLUNTEER/OTHER EXPERIENCE

Boy Scouts of America - Eagle Scout | August 2020

Fairfax County Park Authority | 2021

Seabury Resources for the Aging – Volunteer | 2018, 2019, 2020