Aman Jaiman

Computer Science · Mathematics

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Education

University of Maryland
College Park, Maryland

Master of Science in Computer Science — *Aug 2021 - PRESENT*

- Relevant Courses: Numerical Methods for Data Science and Machine Learning, Foundation of Deep Learning

University of Maryland
College Park, Maryland

Bachelor of Science in Computer Science and Mathematics — *Aug 2018 - May 2021*

- GPA: 3.86
- Relevant Courses: Intro to Data Science, Algorithms, Intro to Machine Learning, Deep Learning (using PyTorch), Data Structures

Work Experience

Microsoft
Remote - Clarksburg, Maryland

Software Engineer Intern — *May 2020 - Aug 2020*

- Worked with the Azure Kubernetes Service (AKS) team to onboard AKS onto Azure Event Grid so that customers could receive actionable events. Designed and presented the architecture of the service that was needed to onboard.
- Developed an end-to-end service that was responsible for serving HTTP requests from Event Grid using gRPC and protobuf. Integrated the service into the main build and deployment for AKS.
- Created artifacts and documentation that generate code stubs and help with testing. These artifacts can be used by any Azure service that is looking to onboard to Azure Event Grid, cutting down the onboarding time by weeks.
- MS Invent: Formed a team and built a new event where interns can pitch Microsoft product ideas to judges, receive mentorship and feedback, and meet with executives to further their idea.

University of Maryland Institute for Advanced Computer Studies
College Park, Maryland

Research Assistant — *Jan 2020 - May 2020*

- Analyzed various transformers used for text generation and completion: GPT-2, HuggingFace ConvAI, DialoGPT; to do preliminary testing.
- Fine-tuned existing models on newly collected data on Obama and Trump and wrote generation code to create an automated debate system between bots where a user can act as a moderator.

Applied Information Sciences, Inc (AIS)
Reston, Virginia

Software Engineer Intern — *Jun 2019 - Aug 2019*

- Developed a search term generator for a corpus of news articles using Microsoft Cognitive Services Text Analytics API. The key entities and documents were stored in MongoDB and used in a document search demo application in C# for government agencies.
- Created a console application using a LUIS docker container to demo to government agencies a way to create Question/Answer bots for their internal use.
- Researched the application of machine learning in software development. Built a custom extractor in Kotlin for Cobol and modified the Code2Vec model to classify the extracted code.

EVERFI
Washington D.C.

Software Engineer Intern — *Jun 2019 - Dec 2019*

- Engineered and published a .Net SDK, for the EVERFI RESTful API to help developers interact with and use the API features.
- Tested the SDK by managing University of Kansas student accounts on EVERFI's system.
- Designed and pitched a new course idea to executives to educate high school students about STEM and allow them to make open-minded decisions for their career.
- Attending conferences to learn about SaaS metrics, finance management, and various other business skills.

Skills

Programming Languages	Python, C#, Go, Java, C, JavaScript, Ruby, OCaml, MATLAB, LaTeX
Libraries & Frameworks	.NET Framework, ASP.NET MVC (with Razor Pages), Django, React, Bootstrap
Machine Learning & Data Science	PyTorch, Pandas, NumPy, scikit-learn, NLTK, Microsoft Cognitive Services

Projects

OWL Standings and OWL Pickem

Independent Work

WWW.OWLSTANDINGS.COM | WWW.OWLPICKEM.COM

2019 - 2021

- Built two web apps for the Overwatch and Overwatch League community. OWL Pickem is a weekly pickem challenge where users try to predict games correctly. OWL Standings is an interactive way for users to see which teams will qualify for the upcoming tournaments based on the user's predictions of the matches leading up to it.
- The backend for both apps used the Django framework with a SQL database. The frontend was developed using Bootstrap and Javascript, along with React for the OWL Standings app. Deployment was done using Heroku.

Bitcamp

University of Maryland

Logistics Organizer

2019 - 2021

- Responsible for scheduling Bitcamp, the third largest MLH hackathon. Worked with all the teams to plan a variety of different events, and developed the Run of Show, which was assigned to different organizers for the day of the hackathon.
- Created scripts in Google Sheets to simplify the scheduling process while also making the schedule easy to read. This allows us to automate many parts of building the schedule, and we hope to create an integration of our schedule to Slack for an even better experience.

Tweets In Space

HackUMBC

Developer

2019 - PRESENT

- We reveal insights about tweets and news about any query by showing tweet maps, word clouds, sentiment graphs, and timelines about all tweets and news articles related to that topic.
- Worked with a team to develop a web application built on the Dash framework in Python, using libraries to accomplish data collection and extraction, visualization, and natural language processing.
- Libraries worked with: Dash, Pandas, NumPy, NLKT, Microsoft Cognitive Services, newsapi, TwitterAPI

Exploring Airbnb Prices in New York City

CMSC320 Final Project

Developer

2019

- Performed end-to-end data analysis of Airbnb data in New York. Determined key indicators of price and developed a regression model to predictor price with those features.
- Libraries worked with: Pandas, NumPy, NLTK, Seaborn and Matplotlib, Plotly, scikit-learn

FIRST Robotics Competition (FRC)

Team 4099 - The Falcons

Captain & Technical Mentor

2016-2018, 2018 - PRESENT

- Led the business team to raise over $25,000 yearly and manage professional relationships.
- Constructed and advanced key mechanisms for our robots, allowing the team to become consistent contenders for the District and World Championships.
- Designed and organized RoboCamps for elementary and middle school students to engage students in STEM skills at a young age.