

Aman Jaiman

COMPUTER SCIENCE · MATHEMATICS

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Education

University of Maryland

B.S. IN COMPUTER SCIENCE AND MATHEMATICS

- GPA: 3.90

College Park, Maryland

Aug 2018 - Exp. May 2021

Work Experience

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.

Department of Computer Science at University of Maryland

College Park, Maryland

DATA SCIENCE RESEARCH INTERN

Jun 2017 - Dec 2017

- Implemented a novel neural network model to analyze emotion intensities in tweets (the amount of an emotion present in human text).
- Past work has been very limited and only consisted of one linear regression model (National Research Council of Canada). The new model was tested against the regression model and outperformed it.
- Developed in Python3 with the PyTorch, NumPy, and NLTK libraries, and custom libraries for different lexicons.

United States Pharmacopeia

Rockville, Maryland

SOFTWARE ENGINEER INTERN

Jul 2016 - Aug 2016

- Wrote Python scripts to reduce manual formatting of data before course entry in the Pharmacopeial Education department's database.
- Created webpage templates and stylesheets to be used by the department for different pages of their website.

Skills

Computer Languages

C#, Java, Python, C, JavaScript, HTML5, CSS3, MATLAB, LaTeX

Software Frameworks

.NET Framework, ASP.NET MVC (with Razor Pages), Bootstrap

Machine Learning Frameworks

Tensorflow, PyTorch, Microsoft Cognitive Services

Platforms

Web, Windows (Universal), Linux, Arduino

Projects

Hestia (under development)

Clarksburg, Maryland

FOUNDER & LEAD DEVELOPER

2019 - PRESENT

- Hestia: Airbnb for co-working. We enable users to turn their house into a co-working space and invite other workers to work-from-home alongside them.
- Developed a ASP.NET Core Web API and Application, using a SQL database, C# backend, and Razor pages (HTML/CSS with C#).

FIRST Robotics Competition (FRC)

Poolesville, Maryland

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.