

AMAN JALAN

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EDUCATION

University of Michigan, Ann Arbor

August 2018 - May 2022

B.S.E. Computer Science, Minor: Mathematics | College of Engineering

GPA: 3.60

Relevant Coursework: Data Structures and Algorithms, Web Systems, Computer Organization, Multivariable Calculus, Linear Algebra, Probability, Internet of Things (IoT), Digital Product Design

PROJECTS

ChanceMe@UMich, *Machine Learning Project*

July 2020 - Present

- Created a logistic regression model using Scikit-Learn in Python that predicts someone's chances to get into the University of Michigan based on academics, demographics, etc. with 70% accuracy
- Accumulated 1000+ entries by surveying college students, on which Exploratory Data Analysis was performed using Matplotlib and Seaborn, allowing for filtration of 3% of data categorized as fraudulent
- Applied Feature Engineering & Selection using the LASSO method to increase model accuracy by 10%
- Leading a team that is building a web application through Django, allowing students to use the model

Progressify, *iOS Mobile Application Development*

May 2020 - Present

- Performed Market Research and designed 10+ mock-ups of the User Interface (UI) using Sketch
- Developed the app in SwiftUI using an MVVM architecture that allows users to track their weight and compare progress pictures, the back-end of which was set up using CoreData to optimize storage
- Tested app's performance using the Time Profiler tool in XCode, resulting in 8x speed improvement

Piazza Post Classifier, *Machine Learning Project*

March 2019

- Developed a program in C++ to classify the subject of Piazza (Q&A web service) posts using natural language processing (NLP). Achieved an accuracy of 88% on a dataset of 3000+ posts.

PROFESSIONAL EXPERIENCE

Business Minds, *Co-Founder and President*

September 2016 - March 2019

- Hosted Dubai's inaugural Student Accelerator, enabling 50+ startups to pitch their ideas to potential investors and win \$5000+ in grants, which was acquired through industry sponsorship
- Secured strategic partnerships across companies such as Microsoft and Johnson & Johnson, and startups, to implement a mentorship program for participants, allowing them to bring their ideas to fruition
- Managed 4 cross-functional teams consisting of finance, media, marketing, and admin by holding weekly SCRUM meetings and using white-boarding tools such as Miro, streamlining project workflow
- Supervised the next two editions, which saw a 200% growth in participants and sponsorship money

MEG Consulting, *Tech Analyst*

September 2018 - January 2019

- Restructured the client's on-boarding software (CANVAS) by categorizing 800+ training files into enhanced modules and implementing visual tools using HTML to enhance UI and user accessibility
- Piloted the reorganized, scalable software on 100+ employees, receiving a 90%+ satisfaction rate

SKILLS & INTERESTS

Technologies

C++, Swift (SwiftUI, CoreData), Python (NumPy, Pandas, Scikit-Learn), Git
HTML/CSS, Matlab, TensorFlow, Unix/Linux, Java, C, Arduino, Sketch

Interests

Skydiving (pursuing AFF accreditation), Scuba-Diving, Table Tennis, Cricket