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Manan Patel

<https://github.com/MananJPatel>
<https://mananjpatel.github.io>

Education

Amherst, MA **University of Massachusetts** **Fall 2016 – May 2020**

- **Bachelor of Science in Computer Science and Mathematics**
- Coursework: Web Development; Data Visualization; Software Engineering; Databases; Algorithms; Natural Language Processing; Machine Learning; Artificial Intelligence; Scientific Computing; Statistics; Unix
- **Microsoft Certificate in HTML, CSS and JavaScript**

Employment

Software Engineer **NationsRoot Inc.** **June 2018 - Aug 2018**

- Designed and developed User Interface Web Forms using HTML, CSS and JavaScript which includes concepts like asynchronous programming, closures, types, and ES6 and suggested SEO improvements
- Redesigned the existing website design and improved the search user experience with zip code bar
- Created a content sharing schedule on social media which resulted in a 10% growth of follower count in month

Software Developer **Ultimate Software** **Sept 2019 - Dec 2019**

- Worked on a team of 10 to develop a full stack web anonymous survey app using React, Node.js, and MongoDB
- Used Agile methodologies and had weekly sprint meeting with developers and managers
- Connected our MongoDB databases through HTTP requests and used Git for the version control

Undergraduate Researcher **University of Massachusetts** **June 2019 - Aug 2019**

- Developed algorithm to calculate and visualize KL divergence & Hellinger distance in python
- Implemented them in Energy Landscape for creating transition probability matrix to plot graph using Matplotlib
- Generated program using qualitative & quantitative data for continuous time discrete valued Markov Chain

Teaching Assistant **University of Massachusetts** **Jan 2019 – Present**

- Courses: Computer Systems Principles, Scientific Computing, Linear Algebra, Calculus II & III
- Lead office hours, discussion section to assist students with programming assignments & advised on QA forum

Technical Experience

Projects

- **Media Analysis** (2020). Design the website which shows the bias rating, reliability score and list of entities of different news media companies using RESTful API (CRUD) and web technologies like JavaScript (express), Typescript, HTML, CSS, jQuery, Bootstrap, MongoDB, JSON also deployed it on Heroku
- **Elena** (2020). Created a navigation system in Model–view–controller software design pattern which gives route between any two points and shows shortest path possible. Python, HTML, CSS which includes concepts like DOM manipulation, layout, specificity, cross browser compatibility, and accessibility
- **Diversity of Hollywood** (2019). Created a website which plot the graph of diversity in hollywood using movie dataset with cast and crew variables. Python (pandas), HTML, CSS and JavaScript (D3)
- **Med tracker** (2020). Worked as a data analyst to make machine learning models to predict best health practices for users. Integrated the models with Google Firebase machine learning kit. Python, Tensorflow

Skills

- **Languages:** Python, JavaScript (React, Node, Express, D3), TypeScript, HTML, CSS, jQuery, Java
- **Software/Frameworks:** MongoDB, SQL, Heroku, Git, Bootstrap, Semantic, Babel, Webpack and npm