Timothy Nguyen

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# Education

**University of Massachusetts - Amherst** Amherst, MA May 2022

*BS in Computer Science* & *Data Science*

**GPA:** 3.84; Dean's List

**Thesis:** Resume Tailoring Based on Job Descriptions

**Coursework:** Algorithms, Data Structures, Software Engineering, Scalable Web Systems, Computer Network Theory, Databases, Information Retrieval, Data Science, Natural Language Processing, Artificial Intelligence, Systems Programming

# Work Experience

**Mastercard**, Incoming *Software Engineer I* Arlington, VA Aug 2022 - Present

* Will be a full-stack engineer on the data & services team in August 2022.

**MathWorks**, *Software Engineer Intern* Natick, MA Sept 2021 – December 2021

* Developed, Implemented, and Tested API and performance features on Matlab editors & renderers.
* Collaborated with the web widgets team on design reviews, code reviews, bug fixes, sprint planning, and architecture planning.
* Utilized React, HTML, CSS, JavaScript, Grunt, Maven, QUnit & FuncUnit.

**Dell Technologies**, *Software Engineer Intern* Hopkinton, MA May 2021 – Aug 2021

* Collaborated with two interns to develop Kalman Filter & Metrics Toolkit on Dell’s Edge Solutions Platform.
* Key Contributor in containerizing/deploying applications on Litmus Edge and Streaming Data Platform with Docker.
* Designed and developed an ETL pipeline for a POC related to Litmus Edge and Dell's Streaming Data Platform.
* Utilized Python, JavaScript, Tensorflow, Sklearn, Docker, Grafana, InfluxDB, Node-red, Postgres, and VMware technologies.

**Systems & Technology Research**, *Software Engineer Intern* Woburn, MA May 2020 – Aug 2020

* Designed a Spring Boot/Java/Maven REST service to rapidly automate assurance cases for predictive maintenance.
* Implemented algorithms for Bayesian Networks to support causal model architecture and manage prediction data.

# Projects

**Movie Recommender System** Feb 2021 - May 2021

* Created features such as authentication, movie pages, and movie recommendations on a full-stack application.
* Utilized React, TypeScript, Node/Express, Postgres, Docker, Nginx, FastAPI, and Spark on a microservice architecture.

**Project Evaluation Tool** Jan 2020 - May 2020

* Collaborated on an 8-person team to develop mockups, user stories, entity relationship diagrams, and design docs.
* Used React, Node.js, Express, MongoDB, and Redux to create simple forms and manage user information.
* Provided key feedback and architect potential features for Ultimate Software through sprints and presentations.

**Levels.fyi: Visualizing & Analyzing Total Compensation** Apr 2021 - May 2021

* Utilized the Levels.fyi dataset to analyze total compensation based on location, work experience, and company information.
* Developed interactive choropleth visualizations through R, Mapbox, Plotly, ggplot, and R-shiny.

# Skills:

**Programming Languages:** Python, JavaScript, Java, R, C, HTML, CSS, SQL, Linux, Bootstrap **Frameworks:** React, Node/Express, Redux, Spring Boot, React Native, NumPy, Pandas, TensorFlow **Development:** Agile, Scrum, Docker, Nginx, Git, Jira, Postgres, MongoDB, InfluxDB, Grafana **Additional Experience**

**BUILD UMass*,*** *Co-President & Software Engineer* Sept 2019 - Present

* Provide non-profits, startups, and businesses with web and mobile applications through pro-bono engagements.
* Grew organization to over 65 members and partnered with over 10 clients over two years.
* Led two teams of 8 people to develop an auth/user management & forms/surveys system.
* Utilized React, Node, Express.js, MongoDB, React Native, and Firebase for client projects within the past two years.

**DSC-WAV*,*** *Data Scientist* Sept 2020 - Jan 2021

* Research to provide better transportation for people struggling with drug addiction to get to treatment centers.
* Developed visualizations and cost-time benefit analytics with Python, Pandas, NumPy, and Google Cloud.

**CICS @ UMass Amherst*,*** *Undergraduate Researcher in NLP* Sept 2020 - Dec 2020

* Established an NLP project to detect political ideology & bias on COVID-19 News Articles and tweets on a 4-person team.
* Developed ML and Deep Learning models with Python/TensorFlow/PyTorch on 500,000 news articles & 200,000 tweets.
* Create models to analyze tweets such as RNN, BERT, Naive Bayes, Support Vector Machines with Regression Techniques.