

# Timothy Nguyen

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## EDUCATION

**University of Massachusetts, Amherst (Commonwealth Honors College)**

**Amherst, MA**

*Bachelor of Science in Computer Science, Stats/Data Science*

**Graduation: May 2022**

GPA: 3.8; Dean's List Award F18, S19, S20, F20

**Relevant Coursework:** Algorithms, Data Structures, Software Engineering, Scalable Web Systems, Networking, Databases, Informational Retrieval, Algorithms for Data Science, Natural Language Processing, Artificial Intelligence, Systems Programming

## WORK EXPERIENCE

**Dell Technologies**

**May 2021 - Present**

*Software Engineering Intern*

- Will be interning in the Infrastructure Solutions Group at Dell in May 2021

**Systems & Technology Research**

**May 2020 - August 2020**

*Software Engineering Intern*

- Worked in a 10 person scrum team to create software to rapidly automate assurance cases & causal models.
- Designed Algorithms and REST service in Spring Boot, Maven, and Java and made use of Unit Testing, Design Patterns, and Agile.
- Contributed approximately 10000 lines of code, 400 commits, with a successful demo for the client.

## TECH ORGANIZATIONS & RESEARCH

**BUILD UMass**

**September 2019 - Present**

*SWE Tech Lead*

- Develop web & mobile applications for organizations & startups with technologies such as React, Node, and MongoDB.
- Building in-house authentication & user management system and working with five different outsourced clients.
- Grew organization to over 50 members and assist in recruiting and operational efforts on the leadership team.

**College of Information & Computer Sciences - UMass Amherst**

**May 2020 - Present**

*Undergraduate Researcher in NLP & Deep Learning*

- Established an NLP project to detect political ideology & political bias on COVID-19 News Articles and tweets on a 4 person team.
- Developing 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.

**DSC-WAV (National Science Foundation)**

**September 2020 - January 2021**

*Data Scientist Intern*

- Research to provide better transportation for people with drug addiction to get to treatment centers on an eight-person team.
- Developed visualizations and analyzed the cost-time benefit to get to treatment centers with Python and Google Cloud.

## PERSONAL PROJECTS

**Cheerio (Auth/Forms + Surveys)**

**August 2020 - Present**

- Led two teams of 8 people with the cofounder of BUILD UMass to develop an auth/user management & forms/surveys system.
- Employed React for front-end UI, Node/Express.js/MongoDB for backend, along with React-Redux & Passport/JWT Integration.

**Project Evaluation Tool**

**January 2020 - May 2020**

- Worked in a scrum team of 8 to construct an end-to-end project evaluation tool for Ultimate Software.
- Used React, Node.js, Express, MongoDB along with JWT/Passport for Auth, and Redux for state management.
- Guided team to successful demo, written 8,000 lines of code, and met all MVP requirements for the project.

**Maroon Folder**

**September 2019 - March 2020**

- Developed an app on a four-person team to identify signs of possible distress on campus with React Native and Node/Firebase.

**Personal AI**

**April 2019 - September 2019**

- Self-independent project to build a movie recommendation engine with Python, Flask, and React Native.
- Applied Collaborative & Content-Based Recommendations along with Matrix Factorization methods with Tensorflow and Sklearn.

## SKILLS

- Programming Languages: Java, Python, JS, Scala, C, HTML5/CSS, SQL, R, Linux, LaTeX, Tableau
- Frameworks: Node.js, React, Redux, Spring Boot, Maven, React Native, PostgreSQL, NoSQL, Pytorch/Tensorflow, NumPy, Pandas
- Development: Git, Unit Testing, Async Programming, Rest API, REST API's, Agile, Scrum

- Industry Knowledge: Software Engineering, Web Development, NLP, Artificial Intelligence, Data Science