

Michael James Luvin

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EDUCATION

Northwestern University

Master of Science in Computer Science

Bachelor of Science in Mechanical Engineering

Evanston, IL

Anticipated Dec. 2022

Anticipated Jun. 2022

- **GPA:** 3.98/4.00
- **Programming Coursework:** Data Structures & Algorithms, Machine Learning, Operating Systems, Intro to Computer Systems, Human-Computer Interaction, Object-Oriented Programming, Functional Programming

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML, CSS

Frameworks/libraries: React, Git, Flask, Unix, Node.js, Express.js, Material-UI, AWS (S3, Lambda, API Gateway), , Docker, Arduino, SQLite

EXPERIENCE

Amazon

Software Development Engineer Intern

Jun. 2021 - Sep. 2021

Boston, MA

CS PROJECTS

Join Track (<https://jointrack.club>)

Summer 2020

- Worked with a team member to develop an all-in-one sign up page for NU Track Club to streamline integration of new members into the club's mailing list and GroupMe
- Implemented a SQLite database to store user information, add/delete admins, and block page abusers
- Verified user admin privileges for every attempted admin action on our Flask server in addition to initial front-end verification with Google API to increase security
- Made and reviewed pull requests in order to maintain quality code and spread engineering knowledge
- **Utilized:** Git, React, JavaScript, Material-UI, Python, Flask, SQLite, GroupMe API, Google API

COVID MLB Fantasy (<https://rvcmblfantasy.com>)

Summer 2020

- Developed a full-stack web application to display up-to-the-minute standings and team information for a custom-format MLB fantasy league
- Leveraged the MLBStats-API Python library to fetch up-to-date MLB standings whose response data was processed on the back-end to calculate the fantasy standings
- Implemented a serverless back-end in Python using AWS Lambda with API Gateway to minimize costs
- **Utilized:** React, JavaScript, Python, AWS (Lambda Serverless, API Gateway), Material-UI

Pace Calculator (<https://pacecalcnu.com>)

Summer 2020

- Developed an improved running pace calculator to replace the now defunct coolrunning.com
- Deployment: registered domain with AWS Route 53, hosted static site on S3 bucket, secured with CloudFront
- Sought user feedback after first deployment and subsequently implemented suggestions, such as the ability to select common race distances (e.g. Marathon) rather than manually inputting the numerical distance
- **Utilized:** React, JavaScript, CSS, AWS (Route 53, S3, CloudFront), Material-UI

Backgammon

Spring 2020

- Worked with a classmate to develop an implementation of Backgammon in C++ using GE211 game engine library
- Wrote 100+ lines of tests to ensure proper gameplay in addition to interactive UI testing

NU Robotics Club

Sept. 2019 – Present

- *McCormick Design Competition:* Designed and built an autonomous robot that drives towards a sound source. Programmed robot in C using Arduino IDE.
- *Robobrawl:* Quickly learned CAD (SolidWorks) and manufacturing skills (mill, lathe, soldering) to complete the design and manufacture of team's robot to meet rapidly approaching competition deadline

LEADERSHIP

President, Northwestern Track Club

Jan. 2020 – Present

- Organize executive board meetings, communicate with advisors to develop competition itineraries based on organization guidelines
- Foster a welcoming atmosphere as the face of the club