

NATHANIEL WESLEY

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EDUCATION

Southern Methodist University

B.S. Computer Science and B.S. Statistical Science

May 2022

Overall GPA: 3.5/4.0

WORK EXPERIENCE

Lyle School of Engineering *Robotics Teaching Assistant*

January 2020 - Present

- Mentored 60+ students in Arduino programming, mechanical design, and project management
- Maintain Arduino libraries and documentation used by students to control robot movements and sensors

AT&T *Software Engineering Intern*

June - August 2020

- Created interfaces and APIs using React and Java Spring Boot for internal project management tools
- Collaborated with 5 interns to create TurnUp, a web-application to assess the probability of employees contracting COVID-19 and track employee presence to prevent overcrowding of buildings
- Full-stack developer and software architect for TurnUp, using MongoDB, Express, Node, and React

ANI Networks *Software Engineering Intern*

May - August 2019

- Developed a web-app to manage employee purchase orders using ASP.NET
- Designed database schemas for storing employee purchasing data in Microsoft SQL Server
- Used C# and SQL to create automatic email notifications and find data anomalies

EXTRACURRICULARS & PROJECTS

HackSMU *Hackathon Director and Club President*

August 2019 - Present

- Lead organizer for SMU's annual hackathon, attracting 100+ students
- Hosted weekly meetings with a team of six organizers to plan hackathon budget, logistics, and promotion
- Managed \$8,000 club budget for hackathon and club events
- Created python scripts to clean and analyze hackathon participant demographic data

Deforestation Identifier

- Developed a machine learning solution to detect deforested areas using satellite images with OpenCV and Scikit-Learn
- Used python to analyze labeled image data and optimize an image classifier

SCOTUS Opinions Search Engine

- Created a C++ terminal application to search through all existing SCOTUS opinions using term frequency - inverted document frequency relevancy ranking

SKILLS

- Programming: Python (Pandas, OpenCV, Scikit-Learn), JavaScript (Node, React, Express), C/C++, C# (.NET), Java (Spring Boot)
- Tools: Git, Database (MySQL, MongoDB, MS SQL), Design (HTML, CSS, Figma, Wordpress)
- Languages: English, Indonesian