

Matthew Nicoud

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Education

University of Virginia

Charlottesville, VA

Bachelor of Science in Computer Science, Minor in Engineering Business (GPA 3.806)

Aug. 2020 – May 2024

- Relevant Coursework: Artificial Intelligence, Database Systems, Advanced Software Development, Intro to Cybersecurity, Algorithms, Operating Systems, Software Testing, Software Development Methods, Computer Architecture, Program & Data Representation, Internet of Things, F1/10: Autonomous Racing

Training

Revature Pre-Employment Program | Backend Developer

Feb. 2025 – Apr. 2025

- Developed programming skills in Java, SQL, RESTful API Construction and Spring Framework
- Implemented project work including construction of functional REST APIs using Test Driven Development
- Leveraged Java APIs to write algorithms to solve various challenges
- Technologies Used: Java, SQL, JDBC, Maven, Git, Javalin, JUnit, Mockito, Spring Framework, Spring Boot, Spring Web Module, Spring Data JPA Module

Projects

Schedule Advisor Web Application | Python, HTML, JavaScript, CSS, Django, Heroku, Git

2023 – Present

- Used Scrum methodology in a team of four students to develop a schedule advisor web application for building class schedules from real University of Virginia classes and sending schedules to advisors for approval/rejection
- Designed using JavaScript, HTML, and CSS on the frontend with Django and Python on the backend
- Implemented features: sending a schedule to an advisor account, advisor accepting/rejecting schedule, selecting the academic term to display on the schedule page, revamped overall frontend design outside of class curriculum

Social Workout Tracker Web Application | MySQL, PHP, HTML, Docker, Google Cloud Console, Git

2023 – Present

- Worked in a team of students to develop a social workout tracker web application for creating, sharing, and displaying a feed of documented workouts with friends
- Designed using PHP, HTML, and CSS, with a MySQL database on Aiven and hosted using Google Cloud Run
- Implemented features: primary workout feed separated by privacy levels, friends page, implementation of stored procedures, database security at the database level, revamped overall frontend design outside of class curriculum

Garbage Can Monitoring Alert System | C++, Python, HTML, CSS, LoRaWAN, Git

2024

- Worked in a team of four students to develop a system which collects ultrasonic sensor data from a trash can and displays it on a website with a map to indicate how full or empty each trash can is
- Frontend designed using JavaScript, HTML, and CSS with hosting through Netlify
- Backend designed using Python with hosting through Render and C++ used to extract data from our sensor
- Implemented features: frontend design, Google Maps JavaScript API integration, ultrasonic sensor data collection

Activities & Leadership

Robotics Software Programmer | Java, C++, Git

2016 – 2020

- FTC Team 226 – Java Programmer from 2016-2019, Programming Lead from 2017-2019
- FRC Team 623 – C++ Programmer from 2018-2020, competed in FRC World Championship in 2018

Boy Scout Troop 51

2013 – 2020

- Patrol Leader from 2017-2018, Senior Patrol Leader in 2018, Order of the Arrow Member

Technical Skills

- Java, C++, Python, JavaScript, HTML/CSS, MySQL, PostgreSQL, PHP, Maven, Spring Boot, Git, Docker, Supabase, Aiven, Heroku, Google Cloud Console, Linux, Windows, VS Code, Cursor, Figma, Lucidchart, Agile (Scrum)