

# Matthew Nicoud

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## Education

### University of Virginia

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

Charlottesville, VA

Aug. 2020 – May 2024

- Relevant Coursework: Artificial Intelligence, Database Systems, Advanced Software Development, Intro to Cybersecurity, Operating Systems, Software Testing, Software Development Methods, Internet of Things, F1/10: Autonomous Racing

## Work Experience

### Tally Ho Theater

*Security Officer*

Leesburg, VA

Nov. 2025 – Present

- Provide security for live music events, conduct ticket verification, and assist with venue setup

## 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
- Technologies Used: Java, SQL, JDBC, Maven, Git, Javalin, JUnit, Mockito, Spring Framework, Spring Boot

## Projects

### Schedule Advisor Web Application

2023 – 2025

- 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, hosted on Heroku
- 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

2023 – 2025

- 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

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 by using C++ to extract data from ultrasonic sensor, transmitting data to The Things Network using LoRaWAN, and retrieved data using Python with hosting through Render
- Implemented features: frontend design, Google Maps JavaScript API integration, ultrasonic sensor data collection

## Additional Experience

### 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, REST, Aiven, Heroku, Google Cloud Platform, Linux, MS Windows, VS Code, Cursor, Figma, Lucidchart, Agile (Scrum)