

# 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, Theory of Computation, Discrete Mathematics, Digital Logic Design, Linear Algebra

## Training

### Revature Pre-Employment Program | Back-end 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 methodologies, completed 108 Coding Activities, and showcased understanding of concepts through 14 evaluations
- Leveraged Java APIs to write algorithms to solve various challenges and problem sets
- 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, GitHub

Feb. 2023 – Present

- Developed a schedule advisor web application using Scrum methodology
- Implemented features: sending a schedule to an advisor account, advisor accepting/rejecting schedule, selecting the academic term to display on the schedule page
- Additional role: Testing Manager

### Social Workout Tracker Web Application | SQL, PHP, HTML, phpMyAdmin, GitHub

Sep. 2023 – Present

- Designed a phpMyAdmin database to back a social workout tracker web application
- Implemented features: display of the overall feed of workouts, display of the workout specific information for all exercise types, implementation of stored procedures, database security at the database level

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

Apr. 2024 – May 2024

- Developed a system which collects 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
- Implemented features: frontend design, Google Maps API integration, ultrasonic sensor data collection

## Leadership & Activities

### Robotics Software Programmer | Java, C++, GitHub

2016 – 2020

- Member of FTC Team 226 from 2016-2019, Programming Lead of FTC Team 226 from 2017-2019
- Member of FRC Team 623 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

## Work History

### Chantilly Youth Association Basketball Referee

Nov. 2014 – Mar. 2020

- Refereed youth basketball, communicated with coaches, players, and parents in high stress situations
- Coached and mentored new referees to build confidence and communication skills to be successful

## 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)