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)