Matthew Vandenberg
SWE Intern & Student at Rutgers University

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Education

Rutgers University, *The State University of New Jersey, School of Arts and Sciences*   *May 2025*
Bachelor of Science, Computer Science; Mathematics Minor
Relevant Coursework: Object-Oriented Programming, Data Structures, Systems Programming, Computer Organization, Software Techniques, Differential Equations, Multivariable Calculus
Activities: Rutgers Development Operations Club

Professional Experience

EC² Software Solutions   **Somerset, NJ**
Software Engineering Intern   *June 2022 – Present*

- Developing new features for nuclear medicine ordering to enable sales for over 200 pharmacies and hospitals
- Communicating with QA teams and customers to fix dozens of bugs weekly in a timely fashion
- Collaborating in an agile environment to brainstorm desired features and come up with systematic solutions
- Leading the development on several features using Asp.NET MVC, C#, Alpine.js, HTML, JS, SASS, Git, and Jira

AI Code Academy (*prev. Delaware STEAM Academy*)   **Remote, Newark, DE**
STEM Coach   *November 2021 – Present*

- Proctoring more than 5 weekly sessions at a time with STEM curriculum for middle and high school students
- Constructing lesson plans via presentations, projects, and quizzes to facilitate productive learning
- Answering various questions of different levels on Java, JavaScript, Python Turtle, HTML, and CSS

CODEie/Rising Future   **South Plainfield, NJ**
Advanced Placement Computer Science Coach   *September 2020 – June 2021*

- Created many worksheets and lesson plans to prepare AP Computer Science students for their exams
- Led many extra help classes for 10+ hours per week and worked to strengthen concepts class-wide
- Interfaced with students one-on-one to better understand their strengths and weaknesses in Java

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Projects

Home Assistant Party Welcome Screen

- Displays Spotify now playing status on a television, where attendees can scan a QR code to add a song to the party host's Spotify Queue
- Rest API's, OAuth2, NodeJS, ExpressJS, Cors, PM2, React, Responsive Web Design, Automation

Earthquake Tracker

- Simple interface with advanced filters and support for a multitude of languages, viewable online
- Localization, React, Mapbox, United States Geological Survey, GeoJSON, Firebase

Really Simple iOS Apps

- Suite of iOS Apps meant to perform basic functionalities without data collection or advertising
- SwiftUI, Swift, Objective C, C, Apple App Store Connect, XCode, iOS, Developer Certification, Simulators