Ethan S. Armbruster

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EDUCATION

Bachelor of Science in Computer Science   **May 2021**

Rowan University, Glassboro, NJ

TECHNICAL SKILLS

- Java
- Python
- HTML/CSS
- Bootstrap
- Django

- XML
- C++/C
- Restful APIs
- JSON
- Git/Github

- Amazon Web Services
- Unix/Linux, Windows, MacOS

- Highly motivated with a commitment to meet or exceed goals both in a team environment and an independent setting
- Strength in analyzing, researching, organizing, and problem-solving to meet project and team goals
- Strong communication skills between others in group projects
- Highly skilled at balancing multiple assignments to meet deadlines in stressful situations
- Strength in document composition and solving technical issues.

RELEVANT PROJECTS

Personal Project: Swimming Pool Sensor Hub   **November-Present 2021**

Role: Developer/Designer

- Currently creating an Arduino based hub that will monitor the condition of my personal swimming pool's water for maintenance and convenience of data such as the PH level, the temperature of the water and the ORP(Oxidation Reduction Potential) levels.
- The Arduino hub will send its data via JSON to a python based module SQLAlchemy which will insert the data into an SQL database. This data will be utilized by a forthcoming website and Amazon Alexa skill where family members and I can ask for the pool data.
- It will utilize the following languages/frameworks, C/C++, JSON, SQL, Python, SQLAlchemy, Django, and Node.js.
- Progress Updates can be found at my website ethanarmbruster.com

Personal Project: Personal Website/Blog Page   **October-November 2021**

Role: Developer/ UI,UX

- Created a Personal Website that discusses more information about myself, the projects I'm currently working on and the progress throughout those projects via blog posts.
- The Website utilizes the Django framework(written in Python), has a custom UI, and is hosted by AWS (Amazon Web Services)
- Website domain ethanarmbruster.com

Senior Project: Music Curation Website   **February-May 2021**
Department of Computer Science, Rowan University
Role: Developer/ UI,UX Team Leader

- Assisted in creating a Web-based curation platform built upon the Django framework that allows users to listen, browse and explore new music. Utilizes the Spotify API for all music access and various attributes to assist in music curation.
- Led a subgroup of two other team members in designing and implementing the user experience and dark based theme for each of our pages utilizing HTML, CSS and Bootstrap.
- Utilized Scrum methodologies with a team of 8 members to help assist in the development process

Software Engineering: Liquid Sensor Interface   **September-December 2020**
Department of Computer Science, Rowan University
Role: Developer

- Assisted in creating a Web-based service that allows the purchaser of a MiloneTech Liquid Level Sensor to view and visualize their data, setup and manage their sensors and purchase subscriptions for advanced features.
- Scrum methodologies were utilized in a team of 6 members to help simplify the development process and keep members on task.
- Utilized AWS(Amazon Web Services) for both web hosting and the database of all user information.
- Wrote C++ methods that sends JSON formatted HTTPS packets on an Arduino for data transmission to the AWS server

EMPLOYMENT HISTORY

Parts Technician   **2017 - Present**
Bucko's Appliance Repair, Galloway, NJ

- Contact customers with estimates regarding labor and prices after a diagnosis.
- Manage prices and availability for parts being ordered every day.
- Process daily shipments of parts and conduct an inventory of stock parts.
- Work with management and technicians to ensure accurate and timely diagnoses and repairs.

AWARDS AND ACTIVITIES

- **Eagle Scout,** Boy Scouts of America Troop 55
- **Volunteer of the Quarter**, Atlantic County Park System- Winter 2014
- **Avocation,** 1991 Ford F-150 Restoration, 2009-Present