

Ethan S. Armbruster
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EDUCATION

Bachelor of Science, Computer Science
Rowan University, Glassboro, NJ

5/2021

High School

Cedar Creek High School, Egg Harbor City, NJ

PROFESSIONAL EXPERIENCE

ASRC Federal, Atlantic City, NJ
Computer Scientist 8

12/2021 – Present

Software Developer

12/2021 -

Present

- Software Developer under the FAA AJM-2412 Standard Terminal Automation Replacement System (STARS) Software Development program on the Terminal and Technical (TnT) Operations Support Contract with the RDP (Redmine Development Plugin) development team.
- Analyze, design, develop, test and integrate software for the Redmine Plugin Development team under the STARS program.
- Provide software analysis and code fixes to the Redmine Plugins.
- Provide code, peer and document reviews using SmartBear's Collaborator software/documentation review tool.
- Design and develop test plans and procedures for new and preexisting plugins.

Bucko's Appliance Repair, Galloway, NJ

6/2017-1/2022

Parts Manager

- 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.

PROFESSIONAL EXPERIENCE

Personal Project: Swimming Pool Sensor Hub

11/2021-Present

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 SQL Alchemy 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, SQL Alchemy, Django, and Node.js.
- Progress Updates can be found at my website ethanarmbruster.com

Personal Project: Personal Website/Blog Page

10/2021-11/2021

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

2/2021- 5/2021

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

9/2020-12/2020

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

SKILLS

TECHNICAL EXPERIENCE

- Programming Languages
 - Java
 - Python
 - HTML/CSS
- Operating Systems
 - Windows
 - UNIX
 - Linux
- Microsoft Office
 - Word
 - Excel
 - Power Point

- XML
- C++/C
- JSON
- Ruby
- macOS
- Frameworks
 - Django
 - Bootstrap
 - Git/Github
 - Ruby on Rails
- SmartBear Tools
 - Collaborator

AWARDS AND ACTIVITIES

- **Eagle Scout**, Boy Scouts of America Troop 55
- **Avocation**, 1991 Ford F-150 Restoration, 2009-Present