

Maximilian C. Wilhelm

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PROFESSIONAL EXPERIENCE

Pratt & Whitney - An RTX Business

May 2022 – Present

ASE Senior Methods Engineer

West-Hartford, CT

- Led organization-wide process transformation that improved task turn around and customer trust
- Task Tracking Dashboard – Flask, Vue, Jinja, Django, Postgres, 1000+ daily users
 - Rearchitected Django Jinja based application to Vue
 - Integrated a Redis cache for grid data to improve page load times by 460%
 - Utilized AWS SAM to deploy scheduled Lambdas for processing data from external databases
- Finite Element Analysis Visualizer – Vue, Aurora Postgres
 - Optimized queries and redesigned database to improved load time by 2166%
 - Wrote Lambda to parse 4 varieties of FEA software outputs (word, txt, csv, xlsx) into Json
- Auto SAM – Lambda, Python, Vue
 - Created guided process to generate and customize graphs required for FAA approvals
- Receives 4 awards for distinguished contributions
- Scrum Master for a team of 4 software developers

Computer Projections Inc

May 2019 – June 2019

Technology Solutions Intern

Westport, CT

- Redesign of html-based website to React with brand alignment theme
- Data Center maintenance: swapping failed parts, troubleshooting performance and organizing patch panels

EDUCATION

University of Connecticut

May 2023

Bachelors of Science, Computer Science and Engineering

Storrs, CT

- Minor in Mathematics
- GPA: 3.8
- Concentrations: *Software Engineering* and *Systems and Networks*

SKILLS

- Advanced Languages: MySQL/Postgres, Python, HTML/CSS, JavaScript, C, C++
- Proficient Languages: Bash, Java, C#, Matlab, Perl
- Frameworks and Libraries: React, Vue, Jinja, Flask, REST API
- Tools: Git, Linux, Docker, AWS, Vim, Matomo, Sentry, Zenhub, Jira
- Certifications: AWS Cloud Practitioner, AWS Developer Associate, Registered Scrum Master

PROJECTS

Borderlands Shift Code Auto-Redeemer | Personal | Python, MySQL

- Collected data from scraping database API, integrated into a redemption website utilizing user input credentials, and logged used codes in local MySQL database

Food Truck Ordering system | Senior Project | SQLite, React Native, Node.js

- Hosted a Node.js website on the Wi-Fi hotspot of an Android tablet. Wrote a React Native order management app enabling chefs to track order status, update preparation stages, and communicate with customers. Order data was saved in an SQLite database for future performance metrics