

Aaron Marth

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EDUCATION

The Pennsylvania State University
Bachelor of Science in Computer Science, Minor in Mathematics

May 2023
GPA: 3.52

PROFESSIONAL EXPERIENCE

Siemens Digital Industries Software - State College, PA

Software Engineer

June 2023 - Present

- Developed and maintained 125+ Playwright functional tests to validate new features, detect regressions, and reproduce customer-reported issues across Active Workspace and Teamcenter Visualization applications
- Automated daily test environment setup with GitLabs CI/CD pipeline, saving ~3 hours of weekly manual effort

Software Developer Intern

May 2022 - August 2022

- Developed CI/CD pipeline to automate SikuliX testing for Active Workspace and Teamcenter applications using Python and Batch scripts
- Automated user environment setup, reducing installation time and errors

Minitab Inc. - State College, PA

Cloud Technical Services Intern

November 2021 - April 2022

- Integrated REST APIs and SDKs to query, filter, and aggregate data for customer analysis
- Reduced defect backlog by 20% using PHP

PROJECTS

StateCollege Bus

Swift, SwiftUI, Python

- Displays real time information of State College public transportation using a public API
- Provides users with route, bus stops, live bus locations, congestion levels, and delays

Sudoku Solver

Python

- Solves sudoku puzzles using backtracking algorithm
- Returns solved puzzle, time to compute, and estimated difficulty level

Memory Allocator

C

- Implements Buddy and Slab Allocation mechanisms to allocate/deallocate memory replicating C's built-in malloc and free functions

SKILLS

Languages: Swift, Python, JavaScript, TypeScript, Batch Scripting, C, PHP, Java
Software: Visual Studio Code, Xcode, Eclipse IDE, Git, SikuliX