Penn Bauman

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Professional Experience

Green America (greenamerica.org)   June - August 2018, 2019
   Digital Products Associate, Independent Contractor
Worked with the Drupal content management system on website layout and design, and implemented user friendly database searches and Google Maps integrations.

Undergraduate Teaching Assistant   September 2020 - May 2021
   CS 2150: Program and Data Representation
Assisted students learning C/C++ programming and debugging skills, and developed my own ability to read, understand, and debug other's code.

Undergraduate Research Assistant (besic.org)   May 2021 - Aug 2022
   Behavioral and Environmental Sensing and Intervention for Cancer
Developed and maintained a sensor system to monitor cancer patient pain as part of a $4 million dollar NHS research grant with the UVA nursing school. Redesigned the setup process for the project's Raspberry Pi based sensor packs. Achieved full automation of driver installation, device configuration, and management API connection.

Education

University of Virginia (GPA: 3.7)   2018 - 2022 (Expected)
   Bachelor of Science in Computer Science; Minor in Physics
Course Work Included: Data Structures, Algorithms, Software Engineering, Computer Architecture, Operating Systems, Networks, Compilers, Linear Algebra, Differential Equations, Probability, Modern Physics, Classical Mechanics

Skills

Linux System Administration: Deep knowledge of Linux systems, including server management and configurations as well as containerization and networking.
Public Speaking: Ability to engagingly articulate ideas both in person and through digital mediums.
Languages & Technologies: C/C++, Rust, Python, Django, Flask, Java, PHP, SQL, HTML, CSS, Sass, Bootstrap, Javascript, Typescript, Node, React, Docker, Drupal, Linux, Bash, LaTeX

Projects (github.com/pennbauman)

IBCM Executor: *C, C++, or Rust*   2020 - 2022
A custom executor for the Itty Bitty Computing Machine, used at UVA to introduce the concepts of machine code. Designed to provide extensive debugging and logging options, not available in the reference executor.
Terafirma: *Rust*   2022
A static site generator designed to be as flexible as possible while using only a single configuration file along with its template files.