

Timothy James Barrett

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Objective

Seeking an engaging and challenging computer science internship position for the summer of 2019.

Education

Stevens Institute of Technology

Bachelor of Science in Computer Science

Economics Minor

Hoboken, NJ

Expected May 2020

Accolades: Edwin A. Stevens Scholarship

Relevant Coursework: Discrete Structures, Data Structures, Algorithms, Software Development Process, Systems Programming, Programming Languages, Microeconomics, Macroeconomics, Project Management, Automata and Computation, Concurrent Programming, Database Management Systems.

Programming Languages: Proficient in C++, C, JavaScript, Python, Node, HTML/CSS.

Familiar with XML, SQL, MongoDB, R, C#, Scheme, Git.

Software Skills: Adobe Premiere Pro & Photoshop, MySQL.

Work Experience

Independent Contractor

IT Consultant and Engineer

Hoboken, NJ

August 2017 - Present

- Troubleshoot, repaired software and hardware problems on PCs, laptops, workstations and printers.
- Designed and custom built workstations based on clientele requirements.
- Installed operating systems, MS Office, and other custom software.
- Expanded server networks and improved cable management.
- Lead lessons in solutions for common technical obstacles in the workplace (troubleshooting printing, poor connection, RAM slowdown).

Projects

CollabLaTeX

Web-based LaTeX document editing platform

Academic

- Online text processor with multi-user collaboration functionality akin to Google's Google Docs program.
- Users additionally can sign up with accounts, create, edit, and share documents with other users, and compile to file type of choice.
- Text processor included saving, undo-redo, and multi-user collaboration functionality akin to Google Docs.
- Engineered JavaScript library CodeMirror to satisfy user-to-user interaction requirements.
- Developed within GitLab, using DevOps skills to communicate between frontend and backend teams.

BAC (Blood Alcohol Content) Simulator

Personal

Real-time BAC simulator and calculator

- BAC simulation, tracking, and graphing using the Widmark Formula.
- Used Microsoft Visual Studio to design UI with customizable variables, such as sex, weight, height, alcoholic content, and nursing period.
- Implemented drink preset settings and time navigation for future or past BAC estimates.

Leadership and Volunteer Experience

Stevens Institute of Technology

Student Government Association, Senator, Chair of the SGA Website Committee

Hoboken, NJ

October 2016 - Present

- Website Committee Chair and Webmaster, responsible for the development of a new official SGA website and broadening possibilities for social media accessibility.
- Representative for the freshman, sophomore, and now junior class. Responsible for hearing the needs and interests of peers and addressing them in weekly senatorial meetings.
- Previously served on Budget Committee and Campus Life Committee, for overseeing & approving school club budgets and spearheading campus improvements, respectively.