STEFAN HELLER

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EDUCATION

University of Maryland, College Park   Sept 2018 – Dec 2022

College of Computer, Mathematical, & Natural Sciences   GPA: 3.7

Bachelor of Science, Computer Science

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Completed Course Work

- CS – Applied Machine Learning, Object Oriented Programming, Data Structures, Computer Systems, Discrete Math, Algorithms, Organization of Programming Languages
- Math – Calculus III, Linear Algebra, Differential Equations, Complex Analysis

LANGUAGES

JavaScript (Node.js, React), Java, Ruby, OCaml, Python, C, C#, SQL, SCSS/CSS, HTML5

WORK EXPERIENCE

L.L. Bean   Freeport, ME

Software Development Intern   _June - August 2021_

- Developed a Node.js data service to provide search results, populate pages, and handle RESTful product-related requests for the L.L. Bean website.
- Maintained back-end and front-end applications built with Node.js and React.
- Improved website accessibility for all users according to the W3C Web Content Accessibility Guidelines.

The Washington Service   Bethesda, MD

Software Development Intern   _May 2018 - August 2020 (Summers)_

- Engineered a task management and alert system to generate and handle tasks and reports in real-time across multiple employees.
- Created a web application for management of employee leave, vacation, and time entry.
- Implemented additional features and fixes to client facing websites and programs.

University of Maryland, College of Computer, Mathematical and Natural Sciences   College Park, MD

Undergraduate Teaching Assistant - PHYS260&PHYS122   _January - December 2020_

- Led discussion sections of 20-30 students to supplement and further explain lectures and answer follow up questions.
- Directed virtual lab sessions, guiding students through experiments, and explaining observed phenomena.
- Wrote and graded quizzes on topics covered in lecture.

American University Gravity and Thermal Noise Lab   Washington, DC

Researcher   _June - August 2017_

- Analyzed the statistical distribution of quality factor on LIGO mirror coatings in a team of 3 undergraduate researchers.
- Wrote software to perform statistical calculations and data analysis on quality factor distribution across samples.

PROJECTS

stheller.com   **[JavaScript, HTML, CSS]**

- Built a personal website and blog to keep family and friends updated on my journey through college.
- Used Jekyll and AWS to create an easy-to-update web-app which I can push changes to and host remotely.

Securities Predicting Neural Net   **[Python]**

- Created an LSTM (Long Short-Term Memory) neural network with the goal of predicting the movements of the S&P 500.
  Constructed the LSTM network to learn from pricing history using TensorFlow and Keras.

Fictional 32-bit Processor   **[C]**

- Wrote a simulation of a 32-bit processor that takes hexadecimal instructions and executes them on 3 virtual registers with error checking code sequences
- Created a decompiler which translates hexadecimal instructions to their C equivalents.