BEN SCHWENNESEN

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EDUCATION

Duke University, Bachelor of Science August 2015 – May 2019

Majors: Computer Science and Mathematics
Overall GPA: 3.9/4.0 | *Computer Science GPA*: 4.0/4.0 | *Mathematics GPA:* 3.88/4.0
Relevant Coursework: Software Design and Development (*in progress*), Artificial Intelligence, Data Structures and Algorithms, Discrete Math, Computer Architecture, Multivariable Calculus, Linear Algebra, Complex Analysis, Honors Probability, Differential Geometry

EXPERIENCE

The Aerospace Corporation, Chantilly, VA May 2017 – August 2017
Software Engineering Intern - Software Systems and Acquisitions

- Designed and implemented a system that automatically reconstructs the architecture of arbitrarily complex software systems hosted in the cloud using Elasticsearch, Fluentd, MySQL, and Python.
  - Created a visualization layer for modeling the reconstructed architectures using various JavaScript libraries including jQuery, D3, and JointJS.
  - This system fully automated the tedious task of verifying that contractors have met delivery requirements agreed on with the government, saving reviewers about 10 hours per week.
- Built a static analysis tool for use on ground and satellite software reviewed or produced by the Corporation. This tool will improve the speed of code reviews by about 30% by automating tasks formerly performed by experienced engineers. The tool was written in Python.

Duke University, Durham, NC August 2017 – Present
Undergraduate Teaching Assistant - Department of Computer Science

- Serving as a teaching assistant for Computer Science/Electrical and Computer Engineering 250: Computer Architecture.
- Responsible for leading labs, holding office hours, and grading coursework.
- Topics include: UNIX/Linux, C and assembly programming, logic design, pipelining, I/O, data representations and storage, virtual memory

Fuqua School of Business, Durham, NC August 2015 – May 2017
Research Assistant – Finance Department

- Scraped large datasets containing over 5 million records from various sources on the web, primarily using Python; performed regression and statistical analyses on the datasets using Stata
- Topics of research included but were not limited to: financial technology, hedge fund activism, corporate culture and governance, and the predictive skills of professional financial analysts as compared to amateur bloggers.

Duke University, Durham, NC October 2016 – March 2017
Research Assistant – Department of Mathematics

- Researched methods to automate the repair of models of human nasal passages in the form of triangular meshes, including the removal of toroidal holes and other noise. Programming was done in MATLAB.

SKILLS AND INTERESTS

Programming Languages: Java (*primary*), Python, C, JavaScript, MATLAB, Bash
Technologies: Git, Docker, Kubernetes, Elasticsearch, AWS, HTML, CSS, Relational Databases, UNIX
Interests: Full-Stack Development, Data Science, Machine Learning, Financial Technology