Benjamin Seifert

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EDUCATION

BROWN UNIVERSITY
A.B. in Computer Science
Sc.B. in Physics
Expected May 2019 | Providence, RI
Cum. GPA: 3.5

HAGERSTOWN CC
Hagerstown, MD
Cum. GPA: 4.0
Studied Macroeconomics, Microeconomics, and Atmospheric Science during my high school summers.

NORTH HAGERSTOWN HS
Hagerstown, MD
Cum. GPA: 4.54 (Valedictorian)

LINKS

Personal Website:// **benseifert**
Github:// **seifertben**
LinkedIn:// **ben-seifert-a57502128**

COURSEWORK

COMPUTER SCIENCE
Artificial Intelligence
Software Engineering
Computer Systems
Algorithms and Data Structures
Intro. to Object Oriented Prog.

PHYSICS
Thermodynamics and Stat. Mech.
Quantum Mechanics
Physics Laboratory
Advanced Classical Mechanics
Intro. to Relativity
Analytical Mechanics

SKILLS

PROGRAMMING
languages:
Java • Python • JavaScript/TypeScript • HTML/CSS • C • SQL • Matlab • Groovy
LaTeX

OTHERS
Data Analysis • Excel • Docker • Investments • Elasticsearch • Agile Development • Web Development • Leadership • Physics

EXPERIENCE

OPTUM (UNITED HEALTH GROUP) | Software Engineer Intern
June 2018 – Aug 2018 | Boston, MA

- Began work on containerization of a proprietary software program for increased ease of use internally and to commercialize the product. Worked with Docker, Jenkins, OpenShift, and Docker Swarm to achieve containerization of the key components of the software including NoSQL databases Cassandra and Elasticsearch.
- Second half of the internship was devoted to creating an Angular frontend for the containerized software. Created several of the pages for this application and wrote tests with the Karma environment. Part of this application was configured to run as a desktop application with electron.
- Part of a team of five that won second place in the Optum Global Hackathon involving full time employees and interns from offices all over the country. Developed an innovative mobile game with Unity that helps children engage in management of chronic conditions using the Fitbit API. The idea used principles of machine learning and artificial intelligence to optimize health outcomes. Began a patent application that has reached the review board.

OPTUM (UNITED HEALTH GROUP) | Software Engineer Intern
June 2017 – Aug 2017 | Boston, MA

- Tasked with creating a new self-serve, reusable tool to query policy master data for UHG. The project was part of a long term goal of orienting the business towards big data for accessibility and analytic purposes.
- Learned Scala, Spark, Elasticsearch, and Kibana to create a dashboard that UHG business analysts can use to write custom queries.
- Wrote scripts to help move data from extremely large csv files into JSONs which could be inserted into elasticsearch.
- Developed tools with Microsoft SQL Server and excel to supplement Kibana.
- Work took place in an agile environment and served as both a developer and scrum master.

VOLVO POWERTRAIN NORTH AMERICA | Engineering Intern
June 2015 – Aug 2015 | Hagerstown, MD

- 2 month internship at Volvo's North American manufacturing facility as a VCAP student intern. The position included work in a variety of different jobs, including supply chain organization, machine maintenance, quality assurance, and production.
- Assisted with the updating of a company wide database of packaging instructions, contacting suppliers when necessary. Awarded Operational Excellence Award for an outstanding Kaizen process improvement saving the company over $1000 per year. The addition of a buffer to a mechanical press prevented the chipping of a Volvo T100 transmission component. Skills acquired include 5S, continuous improvement, CAD, and SOPs.

BROWN UNIVERSITY | Physics Tutor
2016 - 2018 | Providence, RI

- Tutored PHYS 30 (Basic Mechanics) and PHYS 40 (Introduction to Electricity and Magnetism) for fifteen students total in two sessions.
- Participate in sessions to help train new hires and improve existing tutors.