Benjamin Seifert

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EDUCATION

BROWN UNIVERSITY
A.B. in Computer Science
A.B. in Physics
May 2019 | Providence, RI
Cum. GPA: 3.7

HAGERSTOWN CC
Hagerstown, MD
Cum. GPA: 4.0
Macroeconomics, Microeconomics, and Atmospheric Science

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
Machine Learning
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
Spring Boot • React • Angular • Docker • Elasticsearch • Mongo • Agile Development • Web Development • Leadership • AI • Big Data • Data Analysis • Excel

EXPERIENCE

OPTUM | Software Engineer
June 2019 – Present | Boston, MA

- Technical lead on a scrum team of 5 developers.
- Worked on a modernization of state wide health mandate information, transforming a disorganized mass of excel documents into a beautiful web interface allowing easy editing and custom queries, reducing errors and decreasing manual labor. Technologies included React, Spring Boot, and Mongo.
- Built an internal review network where managers and team members can give each other feedback and keep track of goals using Express, React, and Mongo.
- Created a microservice for one piece of a large application intended to cut out several outdated services and streamline member enrollment.
- Built a React/Spring application to transform files in non standard formats into standard JSONs. Involved creating a conversion engine with different levels of validation and integrating with several other systems. Incorporated elements of AI to autopredict the most likely format and fields.
- Active in several internal side projects including the AI/ML team. Worked on a platform agnostic chatbot that could be trained on SOP data to answer questions for business users. Also in the process of improving shared devops infrastructure for faster and more reliable deployments.
- Regularly participate in internal hackathons. Projects have included a new feature tutorial component and a chrome extension to test company color schemes without needing to write code.
- Keep up to date with regular trainings. Completed a 45 hour ML course and have attended several conferences including Boston U. AI and Quantum.Tech.

OPTUM | Software Engineer Intern
June 2017 – Aug 2017, 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 Angular, Docker, Jenkins, OpenShift, and Docker Swarm.
- Part of a team that won second place in the Optum Global Hackathon. 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.
- Tasked with creating a new self-serve, reusable tool to query policy 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 for business analysts.
- Wrote scripts to help move data from extremely large CSV files into JSONs which could be inserted into elasticsearch.

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. Modernized company wide database of packaging instructions.
- 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.