

Sam Lonneman

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EDUCATION

University of Florida | Graduating 2024

- Third Year National Merit Scholar in The Herbert Wertheim College of Engineering
- Computer Science Major with Mathematics Minor
- Relevant coursework completed: Algorithms and Data Structures, Programming Fundamentals I (Java) and II (C++), Computer Organization (ARMv8), Applications of Discrete Structures, and Engineering Statistics
- Currently Enrolled In: Intro to Machine Learning and Data Mining, Operating Systems, Functional Programming
- GPA: 4.0

EXPERIENCE

Developer Team Lead/Scrum Master Intern | J.B. Hunt Transport Services | June 2022 – August 2022

- Following my semester as a software development intern as described below, I was given the additional responsibility to serve as the team lead and scrum master for a small group of interns for 8 weeks.
- Organized and ran daily standups, along with weekly sprint refinement, planning, demo, and retrospective meetings.
- Completed and assisted team with releasing changes from countless work items into production environment.

Software Development Intern | J.B. Hunt Transport Services | February 2022 – June 2022

- Completed a full time 16 week internship as a full-stack software developer within a team utilizing agile methodologies through the Scrum framework, hosted on Azure DevOps.
- Made changes to numerous APIs, wrote new endpoints, interacted with relational databases through SQL and JPQL, and updated front-end services to connect with new and existing APIs, updating the company wiki along the way.
- Used Java/Spring Framework for back-end development, along with Angular/TypeScript for front-end work.
- Utilized Google Kubernetes Engine and Lens for CI/CD.
- Maintained back-end and front-end code coverage by writing unit tests with Junit5, Mockito, and Jasmine.

Google Cloud Hero Competition Winner | 2022, Various

- Won 1st, 2nd, and 3rd place in separate gamified labs centered around BigQuery for data analytics and machine learning against full time developers at J.B. Hunt during “13th weeks” dedicated to learning and enrichment.

PERSONAL PROJECT

Rubik's Cube Solving Robot | June 2021 – August 2022

- Used Python and knowledge of algorithms to write a clean and maintainable program which takes in a scrambled cube and generates an efficient solution sequence of moves.
- Implemented autonomous camera input to read in the state of the scrambled cube.
- Configured wiring and power system and wrote code to drive motors from a Raspberry Pi.
- Designed, 3D printed, and tested multiple iterations of original prototype parts using SolidWorks.
- Utilized GitHub for version control and maintained a journal of progress updates and objectives.

EXTRACURRICULAR INVOLVEMENT

Sensors and Systems Sub-Team | Gatorloop | August 2021 – May 2022

- Gatorloop is the University of Florida's entry into the annual SpaceX Hyperloop Pod Competition.
- Set up the radios that will be used to transmit data between to and from the hyperloop pod's onboard computer.
- Worked alongside the controls sub-team to design the framework for transmitting sensor data including velocity, acceleration, temperatures, and battery statuses.

GIS Data Visualization Specialist – Civic Scholars | Bob Graham Center for Public Service | 2021

- Conducted research on social determinants of health in Florida and practiced data visualization to create an accessible public health data porta. Used ArcGIS to summarize findings into an interactive storymap highlighting disparities in availability between different demographic regions with respect to HIV testing availability.