

Liam Waterbury

1659 Sleepyhollow Rd
York, PA, 17403

waterblt@rose-hulman.edu
(717) 758-2854

| | | |
|--------------------------------|---|--|
| Objective | To obtain a full time position in the software engineering field | |
| Education | Bachelor of Science, Software Engineering Minors in Data Science and Spanish Rose-Hulman Institute of Technology, Terre Haute, IN | May 2024 GPA: 4.00 |
| | <i>Related Courses:</i> Data Structures & Algorithm Analysis, Soft. Quality Assurance, Soft. Project Management, Computer Architecture, Soft. Architecture, Soft. Design, Computer Vision, Programming Language Concepts, Data Mining, Deep Learning | |
| Skills | <ul style="list-style-type: none">- Programming Languages: Java, Python, C, JavaScript, Typescript, C#, and SQL- Frameworks: Proficient with React.js and Familiar with React Native and Litestar- AWS: Lambda, S3, Cloudwatch, and ECS- 6 years of Spanish classes and lived in Argentina; have minor | |
| Experience | Telemetry Sports -- Software Engineer Intern -- Noblesville, IN <ul style="list-style-type: none">- Converted portions of the flagship product to new ASGI Litestar API- Introduced Brotli compression response and cache handling for new API- Redesigned core application for new API and for easier feature extension | Summer 2023 |
| | Telemetry Sports -- Software Engineer Intern -- Noblesville, IN <ul style="list-style-type: none">- Full-Stack Software Development, React.js Frontend and MongoDB Backend- Corresponded with NFL and NCAA clients to craft custom data reports and playcards- Designed Flask API blueprints and endpoints for AWS Lambda serverless deployment | Summer 2022 |
| | DEKA Research and Development -- Intern -- Remote <ul style="list-style-type: none">- Develop new algorithms for an autonomous mobile robot- Test the algorithms using robot sensor data | Fall 2023-Present |
| Projects | Computer Vision Stat Extractor, MatLab <ul style="list-style-type: none">- Designed a program to track and extract real world position data from soccer footage- Applied data mining concepts to extract movement data and team/player tendencies- Trained ML models for player, ball, and field line detection for homography generation | Spring 2023 |
| | Soccer Stat Database and Interface, SQL and Java <ul style="list-style-type: none">- Led a team of two teammates to design database schema and use cases- Developed MSSQL Database with Triggers, Indices, and Stored Procedures- Ensured full SQL injection protection on backend and java frontend | Spring 2022 |
| | Landscape Contracting Application, Js and Python <ul style="list-style-type: none">- Personal project for posting and bidding local small scale contracting work- Built Flask API with token authorization served with AWS Lambda- React Native frontend, Firebase Authentication | Summer 2022 |
| | 16-bit Accumulator Processor, Verilog <ul style="list-style-type: none">- Collaborated with a team of four to design and implement a CPU datapath- Developed a custom machine code language to build a relative prime program- Designed and fully documented a processor and assembler from the ground up | Winter 2021 |
| Honors & Activities | <ul style="list-style-type: none">- Noblitt Scholar Honors Program- Rose-Hulman Dean's List- Pi Kappa Alpha Fraternity Treasurer- Rose-Hulman Varsity Men's Soccer- Rose-Hulman Soccer Club- LEAD - Leadership Academy Graduate | 2020-Present 2020-Present 2022-2023 2020-2021 2021-Present 2020 |