BISRAT ZERIHUN

Alexandria, VA
bisratz@vt.edu
bisrat.me | linkedin.com/in/bisratz

Education

Virginia Polytechnic Institute and State University (Virginia Tech)   Expected Graduation: May 2023
Bachelor of Science in Computer Science   GPA: 3.71
Minor in Mathematics, Philosophy
Relevant Courses: Data Structures and Algorithms, Software Design, Discrete Mathematics, Computer Organization, Combinatorics, Computer Systems, iOS development, Linear Algebra

Experience

Meta (Facebook) | Washington, DC   May 2022 – August 2022
Software Engineer Intern
- Developed a full-stack correspondence tool to connect external users with employees through messages and files/media, which at launch hosted more than 100,000 requests
- Designed and developed a configurable user preferences tab that increased user satisfaction rate
- Worked with key stakeholders, content designers, and UX/UI designers to add organizational functionalities to tools
- Partnered with cross-functional teams and privacy engineers to build secure and privacy-aware tools
- Documented and presented findings on new internal frameworks to 40+ engineers
- Improved my team's code quality by migrating deprecated systems, adding metric logs, and performing extensive unit tests

Virginia Tech | Blacksburg, VA   January 2020 – January 2022
Tutor
- Designed study materials, and conducted bi-weekly tutoring lessons on Data Structures and Calculus for undergraduate students

Skills

Programming Languages
Proficient: Java, Python, C, PHP, JavaScript, TypeScript   Familiar: HTML and CSS, Swift, MATLAB
Libraries and Frameworks
Proficient: GraphQL, React.js, Relay, REST   Familiar: Node.js, express.js, Bootstrap, Flask
Tools and Platforms
Proficient: Git, Mercurial, JetBrains, Eclipse   Familiar: Webpack, AWS, Docker, Heroku

Projects

Yelp Camp
A web app that models a simpler version of Yelp, but for campgrounds. This app lets users create secure accounts, upload campgrounds with descriptions, and write reviews. (JavaScript, HTML, CSS)
Smart Image Resizing
An implementation of the seam carving algorithm which creates seams of the least important pixels from an image to remove or add while resizing. The product is a resized image with important components still intact. Uses dynamic programming and topological sorting to find seams. (Java)
Geographic Information System (GIS)
A database that stores given geographic data (coordinates, name of place, etc.) from a csv file and retrieves using specific query language. A script of query commands with comments can be provided to retrieve and add data to the database. Different data structures are used under the hood for maximum efficiency on retrieval (C)

Awards/Honors

Presidential Campus Enrichment Grant (PCEG) Recipient   2019 – Present
Dean's List   All Terms

Extracurricular

Web Development @ VT   2019 – Present
National Black Society of Black Engineers (NSBE)   2019 – Present
Ethio-Eritrean Society Association (EESA)   2019 – Present
Streetdreams VT (Photography)   2019 – Present