

BISRAT ZERIHUN

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Education

Virginia Tech | Blacksburg, VA

Bachelor of Science in Computer Science

Minor in Mathematics, Philosophy

Relevant Courses: Data Structures and Algorithms, Software Design, Discrete Mathematics, Computer Organization, Combinatorics, Computer Systems, iOS development, Linear Algebra

Expected Graduation: May 2023

GPA: 3.71

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 regarding an ongoing request on one of Meta's platforms; at launch, it hosted more than 10,000 requests
- Developed user preferences tab for external users to configure
- Added organizational functionalities such as searching and ordering to list of request tickets
- Migrated deprecated systems, added metric logging, and performed extensive unit testing on tools
- Utilized notification frameworks to send email/SMS notifications when users have an update on a request
- Worked with cross-functional teams of content and UX/UI designers, engineers, and stakeholders to build intuitive, secure, and privacy aware tools.

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 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
Dean's List

2019 – Present
All Terms

Extracurricular

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

2019 – Present
2019 – Present
2019 – Present
2019 – Present