

Theo Bragstad

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Education

University of Colorado Boulder	Bachelor of Science in Computer Science	Boulder, CO
GPA: 4.00		Aug 2021 - May 2025

Selected relevant coursework: Data Structures, Software Development Methods and Tools, Discrete Structures, Computer Systems, Principles of Programming Languages, Algorithms, Linear Algebra, Calculus 1-2, Physics 1-2, Engineering Ethics

Fairview High School	IB/AP Programs, Magna Cum Laude, GPA: 4.69 W (3.99 UW), SAT: 1530
Relevant coursework: AP Computer Science A (4), AP Computer Science Principles (5)	

Selected Skills: C++, C, JavaScript, Java, Python - HTML, CSS, EJS, Bootstrap - PostgreSQL, SQL - Node.js, Express, Postman - ReactJS - Docker, Git/GitHub, VS Code, Slack; problem solving, curiosity, creativity, attention to detail, teamwork

Experience

Undergraduate Research Assistant (Gil Lab)	Python, Google Colab	Aug 2022 - Pres
Development, analysis, and application of computer vision and ML-based object-identification algorithms to better understand the behavior of coral reef fish within social networks with the goal of improving conservation methods.		

Selected Projects see GitHub for full details and more projects

• lists	PostgreSQL, Node.js/Express, JavaScript, EJS, HTML, CSS, Bootstrap, Docker, Google OAuth2 API	Dec 2022
Full-stack web app, using a variety of specialized Node modules such as Passport and Nodemailer; full-featured list/note/to-do app with a productivity-focused UI that is clean, appealing, intuitive, fast, detail-oriented, and enjoyable to use.		

• Ocean Exploration Game	C++	Nov 2021
Highly interactive and variable map and text-based adventure/survival game with probability and other game mechanics, score saving, and a strong focus on object-oriented programming.		

• theobragstad.com	HTML, CSS	Nov - Dec 2022
Personal website. Helped me learn about basic deployment, custom domains, and SSL for HTTPS secured websites.		

• IMProved	PostgreSQL, Node.js/Express, JavaScript, EJS, HTML, CSS, Bootstrap, Docker	Nov 2022
Full-stack web app providing a comprehensive platform for participation in/management of recreational sports, especially for intramural college teams. Developed in a small team following Agile methodology with extensive documentation, use of Git/GitHub version control/project management, standup meetings, testing, and presentation.		

• Blockchain Simulator	C++	Apr 2022
Infrastructure and interface for a basic blockchain-based cryptocurrency that implements the core features/concepts of a real blockchain that can be added to, mined, checked for validity, and more. Uses SHA-256 for hashing and nonce values for mining.		

• Modern Snake	Java, Processing	May 2021
Enhanced version of the original snake game, with gameplay customization, unique graphics, animations, and more.		

Activities & Leadership

Generation Exchange Mentor (Aug 2021 - Pres): connect with seniors and help them with technology-related issues.

CU Sports Analytics Club (Aug 2021 - May 2022): used technologies such as R to gain insights from sports data.

CU Boulder Google Developer Student Club (Nov 2021 - Nov 2022): workshops on various development technologies and tools.

Awards & Honors: CU Esteemed Scholar (President Hale), Be Boulder and Alumni Scholarships; Seal of Biliteracy (Spanish, Boulder Valley School District), National Merit Commended, AP Scholar with Distinction