Cameron Tredoux

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Education

University of Colorado at Boulder   **August 2022 - May 2024**
Bachelor of Science in Computer Science   *Boulder, CO*
Transfer Excellence Scholarship   *Cumulative GPA: 3.92/4.0*

Western Colorado University   **August 2020 - May 2022**
3.98 GPA, Rady Merit Scholarship, Academic Leadership Program Scholarship   *Gunnison, CO*

Technical Skills

Languages: TypeScript, JavaScript, Python, Rust, C++, Java, Bash
Developer Tools: Linux Command Line, Neovim, VS Code, IntelliJ IDEA/PyCharm
Technologies/Frameworks: AWS, Agile/Scrum, Jira, React, Node, Git, REST, GraphQL, Technical Writing

Experience

Keysight Technology   **June 2022 – August 2022**
Software Engineer Intern   *Colorado Springs, CO*
- Engineered a RESTful email API for the digital marketing team that sent 5.7 million emails and reports each month.
- Designed email templates that could dynamically render thousands of data points sent from the API using SendGrid.
- Implemented the API using AWS Lambda and API Gateway, enabling emails to be sent in under 100 milliseconds.
- Developed a dashboard for visualizing hundreds of scheduled IT jobs using Next.js, React, and AWS Elastic Beanstalk.
- Employed the Agile framework and utilized Scrum to develop stories, delivering biweekly demos to stakeholders.

Western Colorado University   **August 2021 – May 2022**
Supplemental Instructor   *Gunnison, CO*
- Spearheaded three weekly 1-hour supplemental instruction lessons for the introductory C++ course.
- Incorporated ideas from class with concrete examples while focusing on collaboration, group study, and one-on-one interaction amongst 5-10 students.

Teaching Assistant   *Gunnison, CO*
- Graded assignments for 20 students in data structures and tutored mathematics and data structures at the university's tutoring center.
- Assisted the physics department by setting up and attending physics labs each week while offering help with Excel and physics concepts for 20 students.

Air Academy Federal Credit Union   **July 2017 – December 2019**
Human Resources Intern   *Colorado Springs, CO*

Projects

Vex Collective - Destiny 2 Data Explorer 🔗 | *TypeScript, Next.js (⭘ Project)*   **August 2022**
- Serialized over 50 API endpoints from the Destiny 2 API for users to make POST and GET requests and obtain detailed information about their characters in JSON format.
- Analyzed dozens of data types for any specified user and visualized them in radar charts, heat maps, and graphs to help users understand their play style.
- Visualized thousands of game items and data from the Destiny 2 API Manifest and provided a front-end for users to view images of their inventory.
- Provided an OAuth2 authorization flow to expose access to protected Destiny 2 API endpoints.

Kōgan - A Discord Bot | *Rust, GraphQL (⭘ Project)*   **May 2022**
- Developed using serenity-rs and GraphQL to interact with the AniList API to support dozens of requests per second.
- Provided a front-end using the Discord API for displaying facts about a show, the countdown until that show, and an up-to-date list of the top ten shows for that week.
- Implemented a means to track one's favorite show and display detailed information about the characters while adding a voting system to encourage user interaction on the Discord server.

Kanatui - Terminal User Interface | *Rust (⭘ Project)*   **June 2022**
- Designed a terminal UI application in Rust to help practice all 92 Japanese hiragana and katakana characters.
- Architected a simple finite state machine to handle pagination and app flow from one section to the next.