

# Ethan Krug

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## EDUCATION

### Bachelor of Science in Computer Science

Graduated June 2022

Minor: **Mathematics**

Central Washington University, Ellensburg, WA

GPA: 3.896 / 4.000

### Related Coursework

Linear Algebra, Advanced Data Structures and File Processing, Technical Writing, Advanced Software Engineering, Database Management Systems, Algorithm Analysis, Computer Network and Data Communications, Computational Intelligence and Machine Learning, Scientific Computing, Operating Systems, Optimization

### Leadership/Achievements/Activities

UW Tennis Club	2018 - 2019
Volunteer food sorter, Food Lifeline, Seattle WA	2019
CWU Tennis Club	2021 - 2022
CWU Robotics Club	2021
Dean's List	Sept. 2020 - June 2022

## SKILLS

Computer Languages: C/C++, CSS, HTML 5, Java, JavaScript, Python, Typescript

Tools/Libraries: Git, Material UI, Matplotlib, NumPy, React.js

Software: Figma, GitHub, Google Docs Editors (Docs, Forms, Sheets), Google Firebase Suite, Linux, Microsoft Office (Excel, PowerPoint, Word), Trello, Visual Studio Code

Languages: English (Native), Spanish (Intermediate)

## EXPERIENCE

### React Web Developer, Freelance, Richland WA

April 2023 - Present

- Created my personal website using React and Material UI with Typescript
- Handled blog posts on my website using GitHub as a Content Management System
- Utilized Orama Search to allow the user to search my blog posts
- Displayed 3D renderings using React Three, a React encapsulation for Three.js
- Experimented with different aspects of website design

### React Web Developer, Academics Are Cool, Richland WA

June 2021 - Sept. 2022

- Designed a new website using React.js and Material UI
- Handled user and website information using the NoSQL Cloud Firestore
- Managed competition registration using Google Sheets, Forms, and Firebase
- Created a Content Management System to aid less technical administrators

### Remote Operations Technician, Strive Tech Inc., Kennewick, WA

June -

Sept. 2019

- Installed and initialized technologies at assigned regional bank locations
- Verified bank site conditions for future installations
- Maintained, repaired, and installed equipment at Smile Surfers dental office

- Educated staff on new technologies

**Simulation Developer**, Freelance, Richland, WA Nov. 2022 - Present

- Developed a visualizer for path-finding and graph-search algorithms in Python
- Researched, implemented, and created numerous algorithms
- Added testing functionality to extract data and compare implemented algorithms
- Translated the application into a website using Typescript and React

**React Native Developer**, KiwiLink, Seattle, WA Dec. 2019 - July 2020

- Collaborated with a team of a dozen or more people
- Ideated design and app layout using Figma
- Created basic profile page

**React Web Developer**, CWU, Ellensburg, WA Jan. - March 2022

- Developed a web application with a team using Agile methodologies
- Constructed the user interface using React.js and Material UI
- Directed daily SCRUM meetings to analyze progress
- Convened weekly meetings with project manager to assess difficulties

**Java Programmer**, CWU, Ellensburg, WA March - June 2022

- Constructed an Object Oriented library of functions to test optimization algorithms
- Generated documentation using Doxygen

**Python Programmer**, CWU, Ellensburg, WA Nov. - Dec. 2021

- Utilized scikit-learn models to analyze various sets of data
- Compared the results between different models to understand their pros and cons