

# Benjamin Berton

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## Education

### Gonzaga University

Expected May 2024

*Major in Computer Science and Computational Thinking*

**GPA: 3.99** | President's List Fall 2020 – Spring 2023

- Relevant coursework: Advanced Algorithms and Data Structures, Software Development, Computer Organization, UI/UX Design, Internet Of Things, Database Management Systems, Machine Learning, Software Engineering, Organization of Programming Languages, DevOps

## Experience

### Software Engineer

September 2023-Present

*Kaiser Aluminum | Spokane, WA*

- Employing preprocessing methods, including normalization, skew correction, and binarization, as part of my senior capstone project to create an Optical Character Reader.
- The primary objective of the Optical Character Reader is to recognize handwritten codes on steel plates along the company's assembly line using a camera system.

### Innovation Lab Intern

May-August 2023

*Ryan LLC | Dallas, Texas (Remote)*

- Programmed an application using a private GPT model from OpenAI to automatically generate rough drafts of grant applications, saving valuable time and resources for organizations seeking funding for their projects.
- Collaborated with the design team, utilizing Figma, to craft an intuitive front-end for a credits and incentives application.
- Proficiently operated within an Agile development framework to ensure efficient project management and delivery for various data analysis projects.

## Projects

### Gonzaga Hackathons

2020-2023

- Competed in multiple hackathons at Gonzaga University
- Projects include a website that identifies unknown individuals, records them, and stores their profile in a database, a command line game of chess in C++, and this year an AI voice model of our machine learning professor using his recorded lectures.

### Voting Website

October-December 2022

- Inspired by my game theory class, developed a full-stack website allowing users to create and vote on polls with different voting methods.
- Provided interactive result visualization, enabling users to compare election outcomes under various voting systems.

## Technology and Tools

Experience with

- C++, Java, JavaScript, and Python
- Object-Oriented Programming
- Alteryx, SQL, R, Tableau, and Excel
- Linux, Command Line
- GitHub, Agile Development
- Figma, UI/UX Design