

Nicholas Bowden

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EDUCATION

Bachelor of Science (BS) Computer Science, Oregon State University, GPA: 3.96,

2020 – **expected Fall 2022**

Bachelor of Arts (BA) Music, Eastern Washington University,

2010 – 2014

SKILLS

- Languages: JavaScript, HTML / CSS, Python, SQL (Relational Design), C
- Frameworks & Libraries: React, Node.js, MongoDB (NoSQL), JWT
- Developer Tools: Git, Github, Asana, Agile Methodologies, Continuous Integration and Continuous Deployment

PROJECTS

Booknook ([Code](#)) – Book recommendation application where users get unique results each search and save books for later.

- Conceptualized as part of a five-member team using **Agile methodologies** to develop **microservices**.
- Engineered to dynamically update page content by making calls to an API and a teammates microservice.
- Work completed in **React**, **Node.js / Express.js**, and **MongoDB / Mongoose**.
- Improved structure and readability through **code reviews**.
- Leveraged token authentication to secure users passwords with **JWT**, encrypted with 'bcrypt' hashing function.
- Try it here ([Demo](#)), hosted on **Heroku**.

CrowdFlow ([Code](#)) – Admin interface for a ticketing system with a web-based UI utilizing a **RESTful** architecture.

- Collaborated with a partner to explore relational database design and normalization.
- Designed schema, created an Entity Relationship Diagram, revised project proposal through **peer reviews**.
- Implemented frontend with **HTML / CS / JavaScript**, backend built using **Node.js / Express.js**.
- Developed multiple pages with CRUD functionality and dynamic updating.
- Modeled and documented several **database relationships** with use of foreign keys and constraints.

Blog List ([Code](#)) – Full-stack single page blog list application that enables users to log in and post blog links on a public wall.

- Learned **React** independently through the University of Helsinki's self-paced MOOC, Full Stack Open.
- Engineered backend with **Node.js / Express.js** using Mongoose to communicate with MongoDB, hosted on Heroku.
- Built frontend with React, **Styled Components**, and **Axios**.
- Created testing suite using **Cypress** with **Jest** and **Supertest** for **unit testing**.
- To view, login here ([Demo](#)) using password and username "guest".

Alpha Energy ([Code](#)) – Built a microservice web scraper that retrieves the Alpha Energy / Intensity levels of a radionuclide based on the atomic number and mass number provided.

- Built using Node.js and the Puppeteer JavaScript library for browser automation and scraping.

RELEVANT WORK EXPERIENCE

Equipment Operator / Website Manager – Dungeness Valley Landscaping,

Aug 2017 – Present

- Revamped existing website to showcase updated services, leading to a 70% increase in website traffic.
- Maintains 100+ yards to excellent condition with year-round services including mowing, leaf cleanup, and pruning.

Baker / Cashier – Casual Friday Donuts,

Jun 2016 – Aug 2017

- Streamlined baking processes for batches of 400 donuts, consolidating total production time by 50%.
- Provided excellent customer service to the lobby and drive-through and handled custom and large orders.

Freelance Musician – Myself,

Sep 2012 – Present

- Performed with Washington Idaho Symphony, Coeur D'alene Symphony, EWU Symphony, and Sequim Orchestra.
- Taught masterclasses for multiple instruments at Sequim High School for 20+ percussionists.
- Educated and mentored students of beginner and intermediate levels to improve performing abilities.