

# Nicholas Bowden

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## SKILLS

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**Languages:** JavaScript, HTML, CSS, Python, SQL

**Software & Frameworks:** Node.js, Express.js, React.js, MySQL/MariaDB, MongoDB, Git/Github, Jira

## PROJECTS

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**CrowdFlow** – SQL database project with web-based UI utilizing a RESTful architecture. Simulates the CrowdFlow Ticketing System admin interface for database management. Developed with a team of 2.

- Designed with full schema, ERD, and project proposal extensively reviewed by peers throughout all stages.
- Developed multiple pages each with CRUD functionality and dynamically updated.
- Modeled variety of database relationships with use of foreign keys and constraints.

**Blog List** – full-stack single page blog list application designed with React.js, Node.js, and MongoDB hosted on Heroku. Logged in users can post blog links on a public wall for others to like.

- Engineered Backend with Node.js and Express.js while using Mongoose to communicate with MongoDB.
- Built Frontend built with React.js Styled Components, and Axios.
- Created End-to-End testing suite using Cypress with help from Jest and Supertest for unit testing.

**DFS/BFS/Dijkstra's** – Python implementations of the depth-first, breadth-first, and Dijkstra's search algorithms for graphs.

- Implemented functionality for both directed and undirected graphs.
- Applied adjacency lists and matrices to find valid paths, connected nodes, cycles, and edge cases.

## EDUCATION

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### Oregon State University

2020 – Expected 2022

*Bachelor of Science in Computer Science*

- 3.95 GPA, Post-baccalaureate program
- Course highlights: Software Engineering, Data Structures, Algorithms, Web Development, Databases

### Eastern Washington University

2011 – 2015

*Bachelor of Arts in Music*

- 3.6 GPA, Dean's list for 6 quarters
- Elected section leader of the drumline for 2013/14 and 2014/15; led rehearsals for the 30-person drumline and performances involving the 300+ person band.

## WORK EXPERIENCE

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### Dungeness Valley Landscaping

2017 – Current

*Equipment Operator, Website Manager*

- Overhauled existing CMS website leading to an 80% increase in web traffic and a higher SEO ranking.

### Casual Friday Donuts

2015 – 2016

*Lead Day Baker, Cashier*

- Streamlined existing daytime baking process consolidating total donut production time by 50%.

### Boys & Girls Club

2012 – 2013

*Staff Member*

- Coordinated with teams of 2/ 3 staff members to devise curriculum and facilitate summer programs for groups of up to 30 children ranged K-12.
- Mentored in one-on-one or small group sessions to help youth navigate problems or process emotions.
- Provided a positive, patient, and stable role model.