

# Bryce Mecham

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## PROJECTS

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### Angular Application

- In creating a dynamic website application using Angular I created an immersive user experience by crafting an interactive SVG world map. Leveraging API data for each country, I elevated data visualization, providing a global perspective and enhancing user interaction.
- Employed Angular routing, TypeScript, Angular component modules, and Angular services, elevating the application's architecture.

### Website Development

- Demonstrated data presentation by crafting a state and city information website. Employing HTML semantic tags and a single CSS page, this design streamlined accessibility, resulting in an intuitive interface.
- Ensured data accuracy with JavaScript form validation, enhancing the information retrieval process. This approach not only guaranteed completeness but also heightened user trust in the reliability of the presented data.
- The website was designed based on user requirements, sketched as a wireframe, and created as a prototype before finishing development to create the best user interface possible.

### Sudoku Solver

- Engineered a robust C++ program capable of solving any solvable Sudoku board by leveraging advanced backtracking algorithms.
- Ensures output validity through Google testing. This not only validates the accuracy and reliability of the output but also highlights a commitment to delivering results that meet the highest standards of quality and precision.

### ALU Calculator

- Working in the Vivado suite, I programmed a Basys Board to perform as an 8-bit arithmetic logic unit calculator using switches as binary input.
- The ALU calculator demonstrates proficiency working with an internal clock to manage a multiple state program, creating and testing with unit tests, and an understanding of logic gates.

## EDUCATION

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### Western Governors University

Bachelors of Science | Software Engineering

Spring 2025

## CERTIFICATIONS

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### AWS Certified Cloud Practitioner

- Validates foundational, high-level understanding of AWS Cloud, services, and terminology.

### CompTIA Project+

- Validates the ability to initiate, manage and complete a project or business initiative on time and within budget.

### WGU Certificate: Front-End Developer

- Recipients of the Front-End Developer Certificate from Western Governors University have acquired proficiency in the creation of responsive, visually captivating, and fully functional websites.

## SKILLS

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**Hard:** C, C++, Java, Python, JavaScript, Version Control (Git), Front-End Web Development, Hyper Text Markup Language (HTML), Cascading Style Sheets (CSS), Angular, TypeScript, Structured Query Language (SQL), Project Management, Visual Studios, Cygwin/ CLI, UI Design

**Soft:** Communication, Creativity, Problem Solving, Leadership, Conflict Resolution, Critical Thinking, Upbeat

## PROFESSIONAL EXPERIENCE

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### Cache Valley Hospital - Patient Care Technician (PCT/CNA)

January 2021 – January 2022

- Enhanced patient care in the Same Day Surgery unit by participating in effective collaboration and communication with a team of Nurses.
- Demonstrated adeptness in high-stakes scenarios. This invaluable experience not only honed decision-making under pressure but also ensured a secure and controlled environment during critical moments.
- Navigated software with advanced security protocols for personal data management, showcasing proficiency in safeguarding sensitive information.