

# Dzenan Zecevic

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## EDUCATION

### Washington University in St. Louis (WASHU)

Aug 2022 - May 2026

*B.S., Computer Science | GPA: 3.91/4.0*

*St. Louis, MO*

- Coursework: **Data Structures and Algorithms, Rapid Prototype Development, Parallel Programming, Object-Oriented Software Development, Machine Learning and Artificial Intelligence in Python**

## EXPERIENCE

### Zaiko (formerly, Sustain-a-Plate)

Aug 2024 - Present

*Full-Stack Software Engineer Intern*

*St. Louis, MO*

- Developed a **React.js/FastAPI UPC scanner** that automated database integration and **reduced data entry time by 80%**.
- Automated low-stock ordering with **Python & Selenium**, **cutting manual work by 90%** for several vendors.
- Integrated **REST APIs** with an **AWS-backed database**, ensuring **seamless** and **reliable** product data access for customers
- Leveraged Git for **version control** and conducted code reviews, promoting **collaboration** and **secure coding practices**.

### Washington University in St. Louis

May 2024 - Aug 2024

*Software Engineer Research Intern*

*St. Louis, MO*

- Programmed **10+ ROS-integrated Python scripts & C++ programs** to enable **autonomous robot navigation** in obstacle-rich environments, leveraging **asynchronous programming** to improve maneuverability and navigation accuracy
- Contributed to the development of a **C++ local planner plugin** for the **ROS Navigation Stack**, **improving** real-time obstacle detection and avoidance **by 30%**.

## PROJECTS

### Check Cashing Web App | Vue.js, Laravel, PostgreSQL

Apr 2025

- Designed and built a check cashing web application using **MVC architecture** to manage customer, check, and transaction objects.
- Connected **Laravel** controllers to **PostgreSQL** to enable full **CRUD** operations on customers, checks, and transactions.
- Integrated Google Places API into the customer address input field to provide autocomplete functionality, improving user experience and data accuracy and consistency.

### Chatroom | JavaScript, Socket.IO, CSS, AWS

Mar 2025 - Apr 2025

- Built a real-time chat application allowing users to create or join chat rooms, interact in a main lobby, and communicate seamlessly using **Socket.IO**.
- Integrated private messaging, user blocking, and admin controls for banning/kicking users, enhancing moderation capabilities.
- Implemented **password-protected rooms** and **user authentication features** to **improve privacy and security**

### Calendar App | JavaScript, CSS, HTML, AWS, Apache

Mar 2025

- Engineered a **full-featured calendar web application** enabling user account creation, authentication, and event management.
- Implemented functionality for users to add, edit, delete events, create group events, and share calendars with others.
- Strengthened application security by **mitigating XSS and SQL injection vulnerabilities** and **enforcing CSRF protection** for event modifications.

### F-SYS | PHP, HTML, CSS, AWS, Apache

Feb 2025 - Mar 2025

- Produced a secure file management system using **HTML, PHP sessions, and AWS**, enabling users to securely **upload, view, copy, rename, and delete files**.
- Optimized scalability** by deploying the system on **AWS with Apache**, ensuring seamless remote access from any location.

### Mock Terminal | C++

Apr 2024 - May 2024

- Created a terminal-based file system leveraging **OOP principles** and **advanced design patterns** for **maintainability** and **scalability**
- Designed file system commands like **'ted'** which combines Linux's **'touch'** and **'ds'** commands enhancing usability and efficiency.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, SQL, PHP, C++, C, Standard ML, Ruby

**Web & Backend:** React.js, Vue.js, Node.js, Laravel, FastAPI, Spring Boot, REST APIs, Socket.IO, Selenium

**Cloud & Databases:** AWS (EC2), PostgreSQL, MySQL

**Developer Tools:** Git, GitHub, Bitbucket, IntelliJ IDEA, Eclipse, VS Code, JavaFX Scene Builder