

# Elmin Didic

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## EDUCATION

### Bachelors of Science, Software Engineering, Iowa State University

May 2024

- Software Engineering Student Council Leader

## WORK EXPERIENCE

### Software Engineer Intern, John Deere

Aug 2022 – Current

- Overhauled the self-driving app UI in C++ to support 100+ languages and display steps to start self-driving. Resulting in increased customer satisfaction and accessibility
- Optimized test cases from 500+ unit tests into a single data-driven test suit, resulting in 100% test coverage for tractor error codes
- Enhanced the GPS map tool by adding a full-screen feature and real-time data display for more effective in field testing

### Software Engineer Intern, Source Allies

May 2023 – Aug 2023

- Led the development of an internal tool using React, Typescript, NodeJS, Azure, and Amazon Web Services to automate new employee account creation and permissions
- Developed a backend API with Axiom and TypeScript to recreate premium Azure, AWS, and GSuite features. Saving over \$74,000 a year on premium subscriptions to cloud providers

### Software Engineer Intern, Casey's General Stores

May 2022 – Aug 2022

- Built a credit card ledger application using Blazor and C# that searched over 40 million transactions, modernizing the accounting team's Excel sheet searching
- Tested API Calls to over 20+ credit card providers, decreasing transaction errors by 40% with xUnit and C#
- Designed the internal web error page to display error codes and who to contact with HTML/CSS and C#

### Undergraduate Research Assistant, Iowa State University

Sep 2021 – Dec 2022

- Published a paper on user interface design patterns in over 200+ video games and document Human-Agent Team ([Paper](#))
- Published a paper on Team skill metrics by translating team constructs to metrics based on observable behaviors ([Paper](#))

## PROJECTS

### BarBuzz Ames [Bar Event Tracker] ([bar-buzz-ames.vercel.app](https://bar-buzz-ames.vercel.app))

Dec 2023

- Engineered event management platform using Node.js and Next.js, employing TypeScript and MongoDB for seamless event creation and management
- Utilized TypeScript to create secure payments with Stripe and user authentication with Clerk
- Established a relation database with MongoDB to connect Events, Tickets, and Users efficiently, ensuring data consistency and integrity

### Elmin.Tech [Portfolio Site] ([elmin.tech](https://elmin.tech))

Nov 2023

- Created a dynamic 3D personal website with React, JavaScript, and Vite, delivering an engaging user experience.
- Integrated EmailJS for communication and ThreeJS for visually captivating 3D elements, enhancing the website's interactivity and visual appeal

## SKILLS

**Languages:** JavaScript, TypeScript, HTML/CSS, Java, C#, C++, Terraform

**Technologies:** React, Next.js, Amazon Web Services, Azure, MongoDB, NodeJS