

# Elmin Didic

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## EDUCATION

### Iowa State University

Expected Graduation: May 2024

Bachelor of Engineering, Software Engineering

Major GPA: 3.44

**Relevant Coursework:** Data Structures and Algorithms, Construction of User Interfaces, Cloud Computing, Android Application Development, Digital Logic, Database Management, Software Testing, Linear Algebra, Discrete Mathematics

## WORK EXPERIENCE

### Software Engineering Intern, Source Allies

May 2023 – Aug 2023

- Built a full-stack **React** application to handle user accounts in **Azure**, **AWS** and Gsuite saving **\$74,000** per year
- Achieved **95% test code coverage** by using **Jest** and **TDD** (Test Driven Development) minimizing production issues
- Connected **100+ employee** accounts calling **Azure API** to achieve SSO with **Axios** and **TypeScript**
- Deployed a web application with **Terraform** and **GitHub actions** to Azure Enterprise Applications

### Software Engineering Intern, John Deere

Aug 2022 – May 2023

- Identified and resolved reported bugs while creating new tests to prevent future occurrences with **C++** and **QT**
- Revamped **UI** elements for autonomous tractors to display detailed errors in tractor sensors

### Undergraduate Research Assistant, Iowa State University Virtual Reality Application Center

Sep 2021 – Dec 2022

- Created an internal white paper for the USAF (United States Air Force) on **UI/UX** design in Esports analyzing **300+** video games
- Wrote an internal white paper over team communication and patterns for USAF by reviewing Esports team footage

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

May 2022 – Aug 2022

- Built a credit card ledger application using **Blazor** and **.NET** that searched over **40 Million transactions**
- Tested **API** Calls to over **20+** Cred Cards, increasing code quality with **xUnit** and **TDD**
- Designed generic website error pages for all web applications with **Figma**, **HTML/CSS** and **JavaScript**

## PROJECTS

### HumanDetection | Computer Vision Software | [Python](#), [OpenCV](#)

[GitHub](#)

- Used AI trained computer vision models to identify and track moving human body parts
- Visualized hotspots in video footage of movement of human body

### LiftUp | Android Application to track workouts and diet | [Java](#), [Android Studios](#), [Material UI](#)

[GitHub](#)

- Developed frontend app elements with Java and Material UI framework to achieve a sleek modern look
- Created a chat feature handling 50+ active users with web sockets to have a real time messaging
- Deployed CI/CD pipelines to handle automation deployment to production with Docker

### Algorithm Sorter | Algorithm array sorter | [Java](#)

[GitHub](#)

- Developed an algorithm sorter to visualize popular algorithms
- Compared Merge Sort, Insertion Sort, Quick Sort and Selection Sort and analyze speeds of sorting

## SKILLS

**Languages:** (Proficient) TypeScript, JavaScript, C#, Java, HTML & CSS; (Familiar) SQL, Python, C++, GO

**Libraries & Frameworks:** React, Jest, NodeJS, Blazor, TailwindCSS, Axios, xUnit, Qt

**Tools & Services:** Amazon Web Services, Azure, Docker, Git, GitHub Actions

## LEADERSHIP

### Software Engineering Student Council

Aug 2022 - Present

- Selected out of 6 students to receive student feedback and report to professors and staff to help develop and update new curriculum

### Gaming and Esports Club

Aug 2020 – May 2022

- Lead a team of 5 to placing 3<sup>rd</sup> nationally at Red Bull Campus Clutch