# **Benjamin Hardy**

benjahardy99@gmail.com | (469) 534-8310 | linkedin.com/in/ben-hardy-470620285 | github.com/benjaminhardy28 | benhardyportfolio.com

### **EDUCATION**

Texas A&M University College Station, TX - Bachelor of Science in Computer Science

**GPA: 3.8** | Graduation Dec 2026

#### **SKILLS**

- Languages: Java, Python, C++, JavaScript, C#, HTML, CSS.
- Frameworks: React, js, React Native, Express. js, Python Flask, Java Spring Boot, ASP.NET Core (Blazor, Web API).
- Technologies: PostgreSQL, Microsoft SQL Server, Docker, AWS, Postman, Git, Excel/VBA, Selenium, Microcontrollers.

### PROFESSIONAL EXPERIENCE

#### **Software Engineering Intern**

NCR Atleos May 2024 - August 2024

- Architected an interactive document editing platform streamlining the creation and management of API documentation, automatically generating
  interactive, client-facing web portals for ReadyCode API, serving clients such as Payfare for DoorDash.
- Leveraged ASP.NET Core with Blazor, a RESTful Web API, and SQL Server to optimize functionality and data management.
- Developed **AI/ML models** to evaluate ATM transaction volumes by integrating real-time data with historical trends, delivering actionable insights into anomalies and predictive forecasting using **ML.NET** and **Python.**

#### **Software Development Intern**

E3 Entegral Solutions

June 2023 - August 2023

- Optimized data extraction processes through advanced web scraping using **Python Requests**, **BeautifulSoup4**, and **Selenium**, achieving a **78%** increase in data retrieval accuracy for daily thermostat readings.
- Engineered a relational database in **Microsoft SQL Server** to efficiently store and map over **30,000** daily thermostat records, integrating with report generation software to support comprehensive data analysis via **Excel** and **VBA**.

#### **PROJECTS**

Goal Setting Mobile App January 2024

Designed a social network mobile app to allow users to track progress in their goals while competing with friends.

- Developed a user friendly front end featuring account creation, adding friends, and goal posting functionality using React Native.
- Crafted a secure RESTful API using Node.js, Express.js, and PostgreSQL, implementing JWTs for user data retrieval.
- Deployed a containerized API and database on AWS EC2 using Docker, achieving reliable and scalable cloud performance.

Custom Notification Website June 2023 - August 2023

Pioneered a website to allow users to create custom notifications based on changes in other websites' contents.

- Constructed a React.js front-end and integrated a robust RESTful API using Python Flask and SQLAlchemy, implementing secure JWT authentication, CORS protocols, and OpenAI API integration.
- Utilized Python Requests, multithreading, and rotated proxies to ensure efficient data retrieval and enhanced performance.

Java Full Stack Platform Game May 2023 - July 2023

Directed a team project building a full stack Java platform game from scratch.

- Devised a Java Swing platform game from scratch including all animations, physics, and game states using complex classes and OOP principles.
- Established a RESTful API with Spring MVC and Spring Data using Java Spring Boot to retrieve information about each user's scores.

## Foot Controlled Computer Keyboard

August 2022 - July 2023

Spearheaded a fully functional computer keyboard designed to be used by the feet for individuals lacking upper body extremities.

- Built a foot-operated keyboard with an **Arduino** using **C++**, joysticks, and other electronic circuitry featuring a GUI using **Python**, **SQLite3**, implemented with multithreading, serial port communication, and customizable layouts.
- Conducted comprehensive testing and optimization efforts to test keyboard latency, enhance program storage space by 33%, memory utilization by 45%, overall product usability, and ergonomic comfort within the project scope.

#### **Language Translator AR Glasses**

October 2021 - December 2021

Prototyped Augmented Reality (AR) glasses to allow real time language translation using voice recognition and optical character recognition (OCR).

• Constructed a device utilizing a **Raspberry Pi** to respond to voice commands translating any language into the user's language of choice utilizing **AI/ML** APIs for voice recognition, language translation, and optical character recognition (OCR).

## **LEADERSHIP**

## AGGIE FLASH - Mentor for Freshman Led Organization

September 2023 - Present

- Hosted resume workshops, linkedin workshops, proffesional headshots, and service events for 150+ people.
- Collaborated with Twin City Mission on initiatives including hosting a 5K charity run and highway clean-ups to fundraise for the philanthropy.