

# Alex Beckett

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## EDUCATION

### UNIVERSITY OF MICHIGAN

Sep 2020 – May 2025

*Bachelor of Science in Computer Science, Minor in Interaction Design*

*Flint, MI*

- 3.76 GPA
- Graduated with High Honors, Per the University
- Consistently made the Dean's List and awarded as a James B. Angell Scholar for multiple consecutive terms of all 'A's

## RELEVANT COURSEWORK

- **Programming**
  - Problem Solving & Programming I & II
  - Algorithm Analysis
  - Computer Logic Design & Assembly Language
  - Database Design
  - Operating Systems
- **Computation**
  - Introduction to Cloud Computing
  - Software Engineering
  - Computer Architecture
  - Data Structures
  - Introduction to the Theory of Computation
- **Design**
  - Web Design
  - App Design
  - Design IV Information & Experience Design
  - Design I: Type & Image Design

## WORK EXPERIENCE

### SPEEDWAY

Feb. 2022 – Present

*Senior Customer Service Representative*

*Grand Blanc, MI*

- Worked directly with the public and used knowledge of deals to upsell products to them.
  - Did not miss a single expected selling quota for our selling point products.
  - Customers often complimented me on my speed and proficiency in helping them, as well as my upbeat personality in making their purchase a pleasant experience.
  - Had a cheery attitude no matter the situation I was put in, guaranteeing customers a positive service experience.
- Worked closely with management to train new hires on the fly while still making sure daily tasks are completed in a timely manner.
- With management's guidance, I worked as a leader to help with management related tasks to benefit the entire store's crew and customer base when management was unavailable.
- Used knowledge of technology and ability to read documentation to help fix issues with our Point-of-Sale system, card readers, gas pumps, safe, and other devices in the store when permitted and necessary.
- Was able to solve problems that would arise without being taught the proper way to solve them based on context clues.

## SKILLS & INTERESTS

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- **Skills:** Quick Learner, Problem Solver, Adobe Photoshop, Adobe Illustrator, Adobe Premiere, Building Computers, Logo Design, Coding, Ability to use UX design philosophies
- **Interests:** Building Mechanical Keyboards, Design, Art, Computers, Gaming

## PROJECTS

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- **DrillVision** | *JavaScript, JQuery, NodeJS, HTML/CSS, AWS, ExpressJS, AJAX, Multer, PostgreSQL, NGINX, Adobe Illustrator, Figma*
  - Worked with a team of 6 members to develop a full-stack Web Application to analyze marching band performances using machine learning and AI, giving feedback based on this analysis.
  - Designed the branding for the web-application using Figma and Adobe Illustrator, ensuring consistent theming across pages and having a simple logo to associate with the web application .
  - Built RESTful APIs with Node.js and Express.js to handle user authentication, video uploads, feedback retrieval, and a feed-based communication system.
  - Developed a responsive frontend with HTML, CSS, and JavaScript, including dynamic dropdowns, modals, and drag-and-drop uploads.
  - Implemented role-based access control (RBAC) and session-based authentication for secure user management.
  - Configured a PostgreSQL database to manage user roles, band information, video metadata, and the posts created within each band.
  - Deployed the application on AWS, utilizing an EC2 t2.micro unit, the Postgres-based RDS database, and an S3 bucket for storage.
  - Utilized AWS to interface with the algorithm created by other team members to pass videos from the front-end into the algorithm for analysis.
- **Random Chat Application 'rand.im'** | *JavaScript, NodeJS, HTML/CSS, Bootstrap, AWS, SQL, Adobe Illustrator, Figma*
  - Worked with another developer to develop a full-stack Web Application that facilitates both real-time text chat and allows Peer-to-Peer video and audio call between two users chosen at random using WebSocket and WebRTC libraries.
  - Designed and implemented the website's branding and logo, with a focus on consistent and appealing user interfaces and quality user experience-based designs.
  - Utilized PostgreSQL to store users' usernames and passwords, encrypting passwords utilizing its built-in encryption tools.
  - Utilized ExpressJS and Express-Sessions to route the project between multiple pages and pass a logged in user's username for use between different pages.
  - Utilized Amazon Web Services' EC2 and RD2 to deploy this project to the cloud.

## DEVELOPMENT LANGUAGES & TECHNOLOGIES

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- **C++:** Comfortable with the language, not fluent.
- **Java:** Less comfortable than C++, but have used in courses
- **Python:** Same level of comfort as Java
- **JavaScript:** Have used it in courses, as well as in personal projects, similar level of proficiency as C++.
- **HTML5:** Very comfortable with, still open to learning more.
- **CSS3:** Have used it in several courses and personal projects, very comfortable.
- **SQL:** Decent proficiency level with, may not know everything but can get the basics set up and willing to learn more. Preference for PostgreSQL but have used MySQL.
- **Bootstrap:** Have used in courses, comfortable with using it.
- **Git:** Have used Git and GitHub in several personal and academic projects
- **Amazon Web Services:** Have deployed projects to the cloud in both S3 buckets for static pages, EC2 environments for NodeJS based projects, and have deployed SQL databased to RDS.
- **Adobe Illustrator:** Have been using for around a decade for both logo design and for creating prototypes for web and app design.
- **Figma:** Strong understanding of utilizing prototypes for web-applications, streamlining design with wireframes before moving into development.
- **Photoshop:** Have used for around a decade for both photo-manipulation and general visual design purposes.