

Justin Lee

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EDUCATION

University of Minnesota

Bachelor of Science in Computer Science, GPA: 3.45, Dean's List

Minneapolis, MN

Sep. 2021 – May 2025

- **Relevant Courses:** Algorithms & Data Structures, Database Systems, Web Development, Operating Systems, Machine Architecture, Advanced Programming, Discrete Mathematics, Linear Algebra, Program Design, Geospatial Analysis

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, HTML, CSS, SQL, C

Frontend: React, Next.js, Tailwind CSS, TanStack Query

Backend: Node.js, Express, NestJS, Flask, RESTful APIs

Databases & Cloud: MongoDB, PostgreSQL, Firebase, Azure, Vercel, Netlify

Tools: Git, Linux, Auth0, NumPy, Pandas, Matplotlib, Scikit-learn, Papa Parse

TECHNICAL PROJECTS

SafeRoute - Public Safety Navigation Platform | *React, Google Maps API, MongoDB, Azure* GitHub

- Collaborated with team of 5 developers to architect full-stack safety application with real-time crime data visualization
- Implemented crime data filtering system with severity-based map overlays using MongoDB geospatial queries
- Developed responsive React UI components with Google Maps integration and deployed application on Microsoft Azure
- Coordinated with team using Git version control and agile development practices to deliver production application

Task Management Application | *React, Node.js, MongoDB, Netlify*

Live Demo

- Architected full-stack CRUD application with React frontend and serverless Node.js backend using Netlify Functions
- Designed RESTful API with MongoDB for task persistence including create, read, update, and delete operations
- Deployed production application with responsive design, CORS configuration, and comprehensive error handling

Movie Search Platform | *Next.js, NestJS, TypeScript, TanStack Query*

GitHub

- Engineered full-stack application integrating OMDb API with favorites management and advanced search functionality
- Implemented efficient data fetching and caching with TanStack Query reducing redundant API calls
- Utilized Next.js server-side rendering and TypeScript for improved performance and type safety

Audio Pitch Shifter | *JavaScript, Web Audio API, Canvas API*

Live Demo

- Developed web audio player with real-time pitch shifting, speed control, and waveform visualization
- Implemented custom linked list data structure for playlist management and efficient audio buffer handling
- Deployed production application with responsive design and WAV export functionality

EXPERIENCE

Project Assistant

Minneapolis, MN

University of Minnesota - Research Facility Support Services

May 2023 – Aug. 2023

- Configured alarm systems for 500+ laboratory instruments through web-based management interface
- Developed JavaScript automation script to streamline bulk configuration operations improving workflow efficiency
- Collaborated with researchers, engineers, and lab managers to complete technical configurations on schedule