

Calvin Tucker

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PROJECTS & EXTRACURRICULAR

Nextjs Authentication Full stack Project

Nov 2025

Project link

- MongoDB is used to store user data in a NoSQL format.
- TailwindCSS, Nodejs
- React and Next.js are used for seamless single page application browsing.
- Node and Express with various API to ensure secure and functional communications with the frontend.
- Use various middleware to view the simple profile to ensure data security.
- Verify password through email verification link to ensure legitimate users.

Discord bot LLM and RAG

Dec 2025

Project link

- Implements local language models for privacy and security.
- Retrieval-Augmented Generation to store summarized memory for better responses.
- Discord implementation allowing for personal server bot creation.

FastAPI Notes Backend Authentication

Nov 2025

- Harness PostgreSQL for quick and easy data storage or notes and user.
- Authentication for users using JWT and / or Google using OAuth2.
- Stores notes and users using SQL models for quick implementations with PostgreSQL.
- Implemented using Secure Standard practices to keep user data safe.

Education

Southern New Hampshire University, Manchester

Aug 2025

Bachelor's of Science, Computer Science, 3.9

Relevant course work: Full Stack Development I, Full Stack Development II, Current/Emerging Trends in CS, Web Site Design

Southern New Hampshire University, Manchester

Expect Apr 2027

Master's of Science, Computer Science (Artificial Intelligence)

SKILLS

Programming languages: C#, C++, Python, JavaScript, Typescript, Java.

Computer software/ frameworks: React, Microsoft Word, Nextjs, Vue.js, Node, Express, CORS, JsonWebToken, MongoDB, AWS, Tailwind CSS, MYSQL, Docker, FastAPI, PostgreSQL,

Languages: English (fluent)