

# Jacob Norr

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Portfolio: [jacobnorr.me](https://jacobnorr.me) | GitHub: [MagicInUse](https://github.com/MagicInUse) | LinkedIn: [jacob-norr](https://www.linkedin.com/in/jacob-norr)

## Summary

Full-stack web developer with experience in building web applications, APIs, and real-time systems. Strong background in React, Node.js, PostgreSQL, MongoDB, GraphQL, APIs, WebSockets, IoT development, and web fundamentals. Passionate about developing scalable and interactive applications with modern technologies.

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## Skills

- **Languages & Frameworks:** JavaScript, TypeScript, React, Next.js, Node.js, Express.js
- **Database & Backend:** PostgreSQL, Sequelize, MongoDB, GraphQL, RESTful APIs, WebSockets
- **Tools & Platforms:** Git, GitHub, Linux (Mint), Windows, VS Code, Terminal, Insomnia, Office365
- **IoT & Embedded Systems:** ESP32, OTA Updates, Hardware Integration
- **APIs & Integrations:** Twitch API, Blizzard API, OpenWeather API
- **UI/UX & Frontend:** Tailwind CSS, Bootstrap, Vite, Responsive Design

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## Education

- **University of Utah** | Full-Stack Web Development Bootcamp Aug 2024 - Feb 2025
    - Coursework: JavaScript, Typescript, React, Bootstrap, Tailwind, Node.js, PostgreSQL, Sequelize, Git, MongoDB, GraphQL, APIs, Agile Development, Python, Testing
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## Personal Projects

- **Magic Stick Bot**
  - A full-stack Twitch chatbot application for enhanced chat engagement and management.
  - Developed a React + Vite front-end with Tailwind CSS for a modern UI.
  - Built a Node.js + Express REST API for handling bot commands, alerts, and user interactions.
  - Integrated PostgreSQL + Sequelize for database management.
  - Implemented Twitch API and OAuth for authentication and real-time event handling.
  - Utilized WebSockets for real-time chat updates, Twitch alerts, and dynamic UI interactions.
  - Features include chat command management, Twitch alerts, polls, predictions, and channel point tracking.
- **CNC Robot Controller**
  - A web-based control interface for a mobile CNC robot powered by an ESP32.
  - Developed a React + Node.js application for controlling CNC movements and monitoring data.
  - Built an intuitive UI for real-time machine control and status updates.
  - Integrated WebSocket communication for instant command execution and feedback.
  - Designed API requests to send movement commands and retrieve CNC status.
  - Implemented over-the-air (OTA) updates via WiFi for seamless firmware updates.
- **NextJS Guild API**
  - A Next.js app that fetches live World of Warcraft guild and character information using the Blizzard API.
  - Built a Next.js front-end for data visualization and user interaction.
  - Implemented API requests to fetch and display live game data.

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## Certifications

- (Bootcamp Cert)

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## Additional Information

- Passionate about real-time applications, gaming-related development, and IoT.
- Experience managing cPanel hosting for magicapps.dev and jacobnorr.me, including DNS configuration, mail services, PHP hosting implementation, and database management using pgAdmin.
- Utilizing Nodemailer and SMTP for email automation across projects.