

Colin Bjorne

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EDUCATION

Northern Michigan University
Bachelor of Science, Computer Science

Graduated, December 2023
Marquette, MI

WORK EXPERIENCE

Sentry Insurance

April 2024-Present

Software Developer

- Worked on a team building a gateway data hub with .NET 8 and MSSQL, sourcing data from over 20 systems, for integration with a vendor product to replace a legacy system, increasing data processing speed 1800%.
- Assisted in architecting eventing, data auditing and syncing, and internal and vendor API and FTP integration to process real-time updates and deferred syncing of data.
- Used Entity Framework to optimize SQL queries from legacy system resulting in enhanced queries for complex nested data sets.
- Utilized AWS EC2 instances and S3 buckets for containerized batch processing and web application hosting.

United Parcel Service

September 2023-April 2024

IT Technician

- Provide internal technical support to 6 buildings, along with external support for customers utilizing UPS Software.
- Support network infrastructure, and systems, as well as external customer databases and applications.
- Install, configure, and troubleshoot PC's, servers, printers, scanners, VoIP and POTS phone systems.

PROJECTS

Fitness Tracking Application

Spring, React, Postgres

- Designed and implemented a fitness tracking web application using Django and PostgreSQL for data management.
- Developed features to log workouts, plan routines, and monitor fitness progress with a user-friendly interface and robust database integration.
- Deployed application to AWS to ensure scalability and accommodate multiple users with efficient data handling and responsive design.

ExpressJS Project Management Web App

NodeJS, React, MongoDB

- Built full stack application with Express, MongoDB, React, and JWT basic auth to manage users and track tasks.
- Using Node.js Express, handled API calls with express routes and controllers, stored data using MongoDB.
- Functional React components and ChartJS displayed projects, tasks, time tracked and project velocity.

Language Interpreter

SmallTalk

- Designed and developed a programming language interpreter and compiler in Smalltalk, generating optimized C++ code for execution.
- Engineered the interpreter to construct parse trees, ensuring proper variable and function scoping in accordance with Ohm grammar rules.
- Implemented robust language features, including variable declarations, functions, loops, exception handling, and user-defined structs.

TECHNICAL SKILLS

- **Languages:** C#, JavaScript, TypeScript, Java, Python, HTML/CSS, C++
- **Frameworks/Libraries:** .NET, Vue, React, Django, Spring, Express
- **Databases:** MSSQL, MongoDB, PostgreSQL