

Jarod Schupp

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Education

Western Governors University

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Bachelor of Science in Software Development

Skills

Languages: Java, C++, JavaScript, TypeScript, HTML, CSS, SQL, NoSQL

Frameworks: Spring, Spring Boot, JavaFX, Node.js, React, Next.js, SvelteKit, Express.js, Tailwind CSS

Databases: MySQL, SQLite, PostgreSQL, MongoDB

Tools: Postman, Git, Docker, AWS, Firebase

Experience

Schupp's Line Co.

July 2019 – Present

Fiber Optic Technician

Albany, NY

- Developed a company-wide software solution for documenting fiber optic networks (**Fiber Tools**), utilizing software engineering expertise to boost operational effectiveness by 30%
- Established and maintained fiber optic infrastructures across NY state, achieving 99% uptime for critical networks servicing state agencies like DOT, State Police, NYPA (New York Power Authority), and Bridge Authority
- Implemented effective troubleshooting strategies that enabled swift repairs, ensuring uninterrupted operations and demonstrating reliability
- Managed tasks and responsibilities independently to efficiently achieve project objectives, staying within budgetary constraints and meeting deadlines

Projects

Fiber Tools | *Java, JavaFX, MySQL* | [GitHub](#)

- Designed and developed a Java-based application to facilitate the management, documentation, and computation of all aspects of fiber optic networks, now actively used by over 20 industry professionals daily elevating overall efficiency
- Implemented CRUD (Create, Read, Update, Delete) functionalities for diverse records such as inventory, employee data, splices, and individual fibers, thereby improving data organization and accessibility
- Engineered an Optical Time Domain Reflectometer (OTDR) trace viewer to streamline fiber trace review and documentation.
- Developed a report generation feature enabling users to create detailed PDF reports, streamlining the documentation workflow, and facilitating efficient sharing of network data and insights.

WGUHub | *JavaScript, React, Java, Spring Boot, TailwindCSS, Python, PostgreSQL, TailwindCSS* | [GitHub](#)

- Created a full-stack platform using Java and React, integrating a RESTful API with Spring Boot to ensure seamless exchange of data between front-end and back-end components.
- Formulated a review management system to enable verified students to participate in course feedback, alongside an intuitive administrative dashboard for content moderation
- Engineered an in-depth authentication system with email verification to enhance security and privacy for users
- Built a Python script to automate the incorporation of new courses, employing web scraping methodologies for precise and efficient data retrieval

Student Tracker | *Java, Android Studio, SQLite* | [GitHub](#)

- Constructed a mobile app to assist students in keeping track of their academic management
- Defined a robust SQLite database for efficient data management
- Integrated summary and detailed views for courses, offering users comprehensive insights into academic progress
- Executed a notification system to inform students of upcoming assessments, enhancing their awareness and enabling timely preparation

Personal Portfolio | *JavaScript, SvelteKit, TailwindCSS, Firebase* | [GitHub](#)

- Crafted a personalized portfolio website with SvelteKit and Firebase to showcase projects and skills effectively
- Incorporated a responsive design tailored for seamless user experience across a variety of mobile and desktop environments
- Instituted CRUD functionality for authorized users, alleviating secure content management