

# Nicholas Brown

Full-Stack Software Engineer

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## EDUCATION

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Colorado School of Mines, Golden, CO, United States – *Bachelor, Computer Science*

June 2022 - May 2024

Red Rocks Community College, Lakewood, CO, United States – *Associate, Computer Science*

May 2020 – May 2022

## WORK EXPERIENCE

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Software Development Engineer – Advanced @ Hitachi Vantara, Englewood, CO

Aug 2024 - Present

- **Led Full-Stack Product Development:** Played a key role in the architecture, development, and deployment of 4 innovative products, including core API infrastructure and scalable data pipelines.
- **Optimized Deployment & CI/CD:** Implemented CI/CD pipelines that reduced deployment time by 70%, streamlining the release process across multiple applications.
- **Built High-Performance Data Platforms:** Engineered a real-time data streaming system using AWS, integrating ingestion, processing, and API layers into a cohesive, low-latency platform.
- **Collaborated Across Teams:** Worked closely with product and design stakeholders to deliver user-facing features that improved engagement by 35%.
- **Mentored & Maintained Standards:** Conducted code reviews, mentored junior developers, and enforced engineering best practices to maintain code quality.
- **Data Modeling & Reliability:** Designed optimized data models to ensure system performance, scalability, and maintainability.

Software Development Engineer @ Hitachi Vantara

Sep 2022 - Aug 2024

- **Developed Features & Interfaces:** Delivered 3 new pages, 8 forms, and 6 major features while resolving 40+ critical bugs to enhance application functionality and UX.
- **Refactored for Performance:** Contributed to the refactoring of legacy applications to reduce technical debt, improve load times, and streamline the codebase.
- **Enhanced API & Testing Infrastructure:** Integrated RESTful APIs and increased automated test coverage by over 30%, improving system stability.
- **Cloud Deployment:** Deployed and managed applications using AWS services for improved scalability and monitoring.

Software Development Intern @ Hitachi Vantara

June 2022 – Sep 2022

- **Resolved Critical Bugs:** Fixed 100+ bugs, improving software stability during key production cycles.
- **Implemented Front-End Features:** Delivered 3 interactive forms and 2 full customer-facing features from design to deployment.

## SKILLS

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**Programming & Scripting:**  
**Web & Backend:**

Python, Go, Java, Typescript, Javascript, Kotlin, C++, C,  
HTML,CSS, ReactJS, Django, Jetpack Compose, Material UI,Next.js, Node.js, GraphQL,  
RESTful API

**Databases & Cloud:**

MySQL, PostgreSQL, Firebase, AWS S3, AWS Lambda, Azure DevOps, MongoDB, Docker,  
Snowflake

**Development & Collaboration:**

Git, GitHub, Visual Studio, JetBrains Suite, Eclipse, Linux, Jira.

**Data Analytics & CI/CD:**

Numpy, Tensorflow, Pytorch, Keras, MATLAB, Postman.

**Relevant Skills:**

Web Development, Backend Engineering, Cloud Integration, Agile/SCRUM, Cross-platform  
Development, Data Processing, Scripting, Machine Learning, DevOps.

## PROJECTS

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AI-Powered Web Scraper | OpenAI API, Snowflake, Python, Pinecone, Selenium, Beautiful Soup.

- **Led Agile Development & System Architecture:** Directed the team as Scrum Leader, facilitating Agile ceremonies while also designing the full software architecture—leveraging **Snowflake** for data warehousing, **Pinecone** for vector search, and **embeddings** for advanced data representation.
- **Built AI-Powered Scraper:** Developed a robust web scraper enhanced with AI algorithms to extract, manipulate, and integrate relevant data into the client's system.
- **Cross-Functional Coordination:** Collaborated with engineering, product, and client teams to align goals and deliverables—resulting in on-time, on-budget project completion.
- **Optimized Data Accuracy & Performance:** Ensured high data reliability by refining scraper efficiency and integrating accuracy-focused AI models.
- **Mentored Team Members:** Provided technical guidance on software development and Agile practices, fostering a collaborative and high-performing team environment.