Leo Smith

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EDUCATION

Concordia College, Moorhead, MN

Bachelor of Arts in Mathematics and ACS Chemistry   *Aug 2018 – May 2023*

- **Achievements:** s*umma cum laude* (4.0 GPA), Dean's List (9 semesters)
- **Involvements:** Cross Country, Track & Field

SKILLS

- **Programming languages:** JavaScript, Go, Python, R, Java, HTML/CSS
- **Frameworks and libraries:** Node.js, Vue.js, Express.js, Bootstrap, Mongoose
- **Databases:** MariaDB, MongoDB, Redis, Elasticsearch
- **Development tools:** Git, GitLab, Docker, Kubernetes, AWS, RabbitMQ, Bash/Linux

WORK EXPERIENCE

Voxtelesys, Fargo, ND

Software Engineer 2   *Dec 2023 - Present*
Software Engineer 1   *May 2023 – Dec 2023*

- Cut billing time by 50% and improved maintainability of billing software by migrating the invoicing and payment applications to Node.js, reworking invoice PDF creation, and optimizing database queries in MariaDB
- Built an interactive user interface for displaying and analyzing call flows using Vue.js, and implemented automatic call troubleshooting by parsing SIP packet headers for potential errors
- Reduced the workload of the accounting team by designing a framework for adding one-time charges to customers' recurring invoices, which drastically lowered the need for accounting to create one-off invoices
- Implemented dynamic 911 call routing into the SIP proxy servers, used Go to process call records and bill customers for 911 calls with invalid locations, and created a REST API for managing 911 locations
- Expanded the company's IVR application with a Node.js API for initiating outbound calls, added the ability to record IVR calls, and constructed a drag-and-drop UI tool for building IVR call flows

INTERNSHIPS

Voxtelesys, Fargo, ND

Software Engineer Intern   *Dec 2022 – May 2023*

- Streamlined customer address validation in the company's HUD by integrating with the Google address API
- Enhanced the accounting team's user interface by implementing pages for managing ACH payments and sending late payment notices to customers
- Incorporated daily summary reports into the customer portal and improved their performance by fetching call record data with Elasticsearch queries

Boise State University, Boise, ID

Machine Learning Researcher   *May 2022 – Jul 2022*

- Developed Bash scripts to generate and preprocess microstructure images of metal alloys
- Employed machine learning with Python and TensorFlow to predict material properties of metal alloys to within 7% of their actual values
- Streamlined microstructure image generation using phase-field simulations of spinodal decomposition

Scripps Research, San Diego, CA

Organic Chemistry Researcher   *Jun 2021 – Aug 2021*

- Formulated a cost-effective method for synthesizing an alkaloid molecule using techniques in organic chemistry
- Analyzed results of synthesis reactions using quantitative and qualitative chemical analysis tools
- Conveyed research concepts and results to peers with several slideshow and poster presentations