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

TECHNICAL SKILLS

Node.js	Vue.js	Go	MariaD	MongoDB	Redis	HTML / CSS	Docker	Git

Bash / Linux	AWS	RabbitMQ	Java	Python	R

WORK EXPERIENCE

Voxtelesys, Fargo, ND

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

- Maintain technology stacks by fixing bugs, reviewing code written by workers, implementing new features for the company's applications, and managing deployments with Docker and Kubernetes
- Manage and improve payment and billing applications by migrating to Node.js, formulating test frameworks, optimizing performance, and implementing feature requests from the accounting team
- Expand and modernize voice applications such as the IVR system, public-facing APIs, call recordings, and the SIP proxy servers for inbound and outbound calls

Selected Projects

- **Dynamic E911**: implemented the ability to route 911 calls based on locations provided in SIP messages instead of the address that is statically tied to the caller's phone number
- **Billing overhaul**: reduced billing time by 50% by rewriting and optimizing the billing server, and streamlined the accounting team's workflow by constructing a framework for adding one-time charges to recurring invoices
- **IVR expansion:** developed API for outbound IVR calls, introduced the ability to record IVR calls, and built a drag-and-drop UI for creating IVR call flows
- **SIP analysis and troubleshooting**: built a UI for troubleshooting calls, which allows users to easily visualize SIP messages in a ladder diagram and automatically flags calls for potential sources of error

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 HUD's billing section by creating interfaces for managing ACH payments and late payment notices
- Incorporated daily summary reports into the customer portal and improved performance with Elasticsearch

Boise State University, Boise, ID

Machine Learning Researcher   *May 2022 – Jul 2022*

- Developed scripts in Python and Bash to generate and preprocess microstructure images of metal alloys
- Employed machine learning 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