Leo Smith

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EDUCATION

Bachelor of Arts in Mathematics and ACS Chemistry
Concordia College, Moorhead, MN *Aug 2018 – May 2023*

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

TECHNICAL SKILLS

JavaScript | Node.js | Vue.js | MariaDB | MongoDB | Redis | HTML | CSS | Java | Python | R | C# | Git | Docker/Kubernetes | Linux | Machine Learning

WORK EXPERIENCE

Software Engineer 1
Voxtelesys, Fargo, ND *May 2023 – Present*

- Migrate the invoicing, billing, and payment web servers from Ruby to Node.js and enhance their performance
- Collaborate with the accounting team to develop new features for existing C# billing applications
- Utilize Vue.js to revamp the porting page on the customer portal and streamline port submissions
- Maintain the customer portal and support HUD by implementing bug fixes and logic improvements

INTERNSHIPS

Software Engineer Intern
Voxtelesys, Fargo, ND *Dec 2022 – May 2023*

- Streamlined customer address validation in the support HUD by integrating with Google address APIs
- Enhanced the HUD billing section by developing pages for managing ACH payments and late payment notices
- Incorporated daily summary reports into the customer portal and improved its performance with Elasticsearch

Machine Learning Researcher
Boise State University, Boise, ID *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

Organic Chemistry Researcher
Scripps Research, San Diego, CA *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

Computational Biology Research Assistant
Concordia College, Moorhead, MN *May 2020 – Jun 2020*

- Assessed the effects of plant cultivation on nectar quality by constructing a meta-analysis with existing research
- Conducted a systematic search through existing literature for relevant studies using several research databases
- Computed effect sizes and several statistical relationships using the gathered data by writing scripts in R

KEY PROJECTS

Retail Rescue Routing

- Collaborated with the Great Plain Food Bank to optimize their food pick-up and drop-off routes using simulations
- Analyzed the problem by identifying the objectives, constraints, and variables in relation to driving routes
- Built a genetic algorithm in R which minimizes the weight of food left over at the end of each day

Cyclic Voltammetry Simulation

- Created a Python desktop application displays a real-time cyclic voltammogram with adjustable parameters
- Designed a website that generates a cyclic voltammogram based on the various input parameters
- Utilized JavaScript, HTML, and CSS to engineer a simple and intuitive user experience