Victor Boyer

RESEARCHER

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Education

Montana State University

Bozeman, MT

BACHELOR OF SCIENCE IN MATHEMATICS, GPA: 3.5/4.0

May 2022

- Montana Math Modelling Competition, Third Prize Fall 2019
- Math Club, Vice President Fall 2018 Present
- Relevant Coursework:, Applied Linear Algebra, Math of Machine Learning, Probability Theory

Montana State University

Bozeman, MT

BACHELOR OF ENGINEERING IN FINANCIAL ENGINEERING, GPA: 3.2/4.0

May 2022

• Relevant Coursework:, Data Visualisations, Financial Modelling, Database Systems

Skills _

Languages Python, R, Julia, Typescript, C++, Rust, CUDA, LaTeX

Frameworks and Packages H2O, Tensorflow, Flux, ggplot2, MatPlotLib, Pandas, Bash, Proxmox, AWS, Docker

Experience

Foundant Technologies Bozeman, MT

CS Intern May 2021 - PRESENT

- Design and implement CSS/HTML frontend and JS components for custom designed to visuals to client specification.
- Improve UI design and documentation process for onboarding of nontechnical staff.
- Helped reduce one-touch metric for engineering focused issues from 3 days to less than 5 hours.
- Work to manage performance in AWS instances via Kibana and Elastic dashboards.
- Utilized an agile framework in Jira to effectively manage and track user stories for proper time management with over 1250 technical issues addressed.

Montana State University Bozeman, MT

RESEARCHER July 2021 - PRESENT

- Redesign backend computation for algebraic structure decreasing computation speed more than 100 fold through just-in-time compiling and multithreading.
- Research parallels between Farey Diagram and two-bridge knots and links.
- · Efficently design and computer Q-Algebra to specificed denominator for insight into representation as a Hausdorff set.

Trade Risk Guaranty

Junior Underwriter

Bozeman, MT January 2019 - May 2021

- Advanced cash-flow analysis to model client inefficiencies and minimize surety loss for credit amounts of 50k-300k.
- $\bullet \ \ \text{Work directely with clients to effectively manage bond sufficiency and potential legal issues due to Anti-Dumping/Countervailing entries.}$

Projects _____

turnip Bozeman, MT

RESEARCHER Spring 2021 - Present

- A julia based parallel processing project built to calculate set of disticnt algebraic polynomails derived from hyperbolic knots.
- Makes use of Fortran and CUDA code for highly parallel data processing for computationally intense polynomial processing.

Error Analysis Model First Interstate Bank

STUDENT RESEARCHER

Spring 2022

- Implemented AI/ML model for error prediction in database of outstanding loans using R (h2o, ggplot2, keras, tidyr) and Python (tensorflow, matplotlib, pandas)
- Reduced manhour time for data-governance team by predicting likely sites of error.