Jason Van Bladel

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Education

University of the Pacific, Stockton, CA **May 2021**

M.S. in Engineering Science with an emphasis in Computer Science
B.S. in Computer Science

- Concentrations: Data Analytics & Software Development
- Dean's list; Cumulative GPA 3.8
- Minor in Engineering Management
- Key Coursework: Data Structures, Algorithms, Database Management, and Data Science

Experience

InfoIMAGE Software Engineer I, Brisbane, CA **Aug 2021 – Present**

Develops and modifies various applications for clients which is primarily done with scripting Bash or Python in the Linux environment. Facilitates and contributes to internal web projects using Flask. Practices agile methodology, full stack planning, and implementation.

Student Tutor & Teaching Assistant, Stockton, CA **Jan 2019 – May 2021**

Facilitated laboratory sections and conducted office hours to help students with coursework. Assisted professor with grading. Recommended by professors to mentor students through coursework in Application Development (Java), Data Structures (C++), Computer Systems and Networks (C), and Computing Theory.

Technical Skills

- Algorithm Design & Analysis
- Most used Languages: Python, C, Java & C++
- Linux via Virtual Machines
- Practiced Agile Methodology
- Version Controls: Git & Bitbucket
- Data Analysis & Visualization
- Experience: Matlab & Rstudio
- Full Stack Planning & Implementation
- Parallel Computing & Analysis
- Database Management with SQL

Projects

Stock Market Risk Analyzer (Data Science) **Language: Python**

Objective: To apply Data Science techniques for visualizing the amount of risk in a given asset.

- Data acquisition and data cleaning with API. Program had ability to query, sort, and store data.
- Generated predictive models with regression analysis and demonstrated data visualization.

Auction House Website (Senior Project) **Framework: Django**

Objective: To demonstrate mastery of skills acquired at Pacific in a single application.

- Full Stack development demonstrating the Model View Template (MVT) architecture.
- PayPal integration with secure payment processing via PayPal Instant Payment Notification (IPN).

Canny Edge Detector (High Performance Computing) **Language: C**

Objective: To utilize parallelization methods to speed up execution of image outlining algorithm.

- Implemented parallelization techniques in C using pthreads, OpenMP, and MPI.
- Demonstrated speedup with the GPU employing the Nvidia CUDA Toolkit.

Tank Shooting Simulator (Application Development) **Language: Java**

Objective: Coordinate and develop a program that implements a graphical interface.

- As team leader, graphically modeled a generated flight path using vectors and physics.
- Integrated 2D object collision with complex animations and event triggers.