JASON HELLER

332 East 95 St. New York, NY 10128

jasonheller96@gmail.com │ (845) 553-4478 │ https://jason-heller.github.io

PROJECTS

Chess Application with Turochamp Bot <div align="right">Feb 2024</div>
- Developed a chess bot based on Turochamp, a chess program originally devised by Alan Turing and David Champernowne, leveraging alpha-beta pruning for optimal decision-making
- Implemented a multithreaded architecture for enhanced performance of the chess bot, utilizing asynchronous processing
- Engineered within a feature-rich environment supporting all chess mechanics, seamlessly integrated with a fully immersive 3D chess board interface

CRUD-Based Predictive Recipe Lookup <div align="right">Jul 2023</div>
- Developed a CRUD-based single-page search engine with real-time display of the most relevant results
- Utilized lookahead to optimize search functionality
- Implemented mock backend integration using JSON-Server
- Technologies used: JavaScript and React

3D Java Game Engine <div align="right">Jul 2023</div>
- Implemented a component-based particle renderer with built-in tools for editing effects in real-time.
- Integrated baked ambient lightmapping for realistic lighting, parallax-corrected cube maps for enhanced visuals
- Supported skeletal animations for character movement
- Technologies used: Java, OpenGL, GLSL

NetSciDraw, *Senior Project* Binghamton, NY Javascript Developer <div align="right">Sep 2018 – Mar 2019</div>
- Architected and implemented the frontend working as the developer on a student team to build a multi-platform app, projected to visualize information systems for educational purposes
- Coordinated in a team of five to refactor the prior codebase to make the application extendable and deployable
- Launched and showcased application at the General Donald R. Keith Memorial Capstone Conference the US Military academy at West Point as part of the 2019 team

EDUCATION

SUNY – Binghamton University <div align="right">Binghamton, NY</div>
Bachelor of Arts in Actuarial Mathematics <div align="right">Degree Completion May 2020</div>
   Relevant Coursework: mathematical statistics, calculus, financial mathematics, intro to scientific computing, linear algebra
Additional Courses: Introduction to Algorithms - MIT OpenCourseWare

SKILLS

- Java, Javascript, Python, MySQL, HTML5, CSS3, R
- React, Vue, Angular, GitHub, Ubuntu
- VS Code, RStudio, Tableau, CDK Drive
- Microsoft Word, Excel (advanced knowledge of pivot tables, VLOOKUP/XLOOKUP, macros), PowerPoint

PROFESSIONAL EXPERIENCE

Saban Onyx New York, NY Accounting and Production <div align="right">Apr 2024 – Present</div>
- Utilized Fantasy software to streamline production and accounting processes, ensuring accurate tracking of inventory, sales, and expenditures
- Implemented data validation and error-checking mechanisms in Excel to ensure the accuracy of financial and production data
- Created custom reports in QuickBooks to monitor financial performance and support strategic planning

Independent Research / Freelance Work New York, NY <div align="right">Aug 2023 - Jan 2024</div>
- Conducted extensive studies of data collection and analysis on emerging technologies in computer science and data visualizations
- Completed comprehensive data analysis projects, utilizing Python and SQL to extract, clean, and interpret large datasets, resulting in strategic recommendations and data-driven decision-making
- Restructured and optimized the frontend codebases of personal websites to enhance performance and user experience

Dennis & Co. Auto Group Pearl River, NY Accounting Staff <div align="right">Dec 2022 – May 2023</div>
- Compiled, cleaned, and validated accounting schedules for vehicle sales, inventory, and commissions
- Ensured all purchases matched respective invoices, verified all required documentation was present and correct, and confirmed all orders were compliant with state and federal law
- Assisted payroll in collecting and verifying commission reports and sending reports to management

JPMorgan Chase Bank Pearl River, NY Associate Banker <div align="right">Aug 2021 – Dec 2022</div>
- Represented the Chase brand and culture through excellent customer experience to current and potential clients
- Managed customer transactions and self-service banking options such as reordering a debit card, setting up a direct deposit, or helping update their address while maintaining established control standards
- Meticulously monitored client accounts and safeguarded against fraudulent activity

CERTIFICATIONS

Introduction to Cloud Computing <div align="right">Jun 2023</div>
   Skills: Cloud Computing, DevOps, PaaS, SaaS, IaaS, Cloud-Native Architecture

Google Data Analytics Professional Certificate <div align="right">Aug 2022</div>
   Skills: Data Aggregation, Data Analytics, Data Calculations, Data Cleaning, Data Ethics, Data Visualization, Problem Solving, Structured Thinking