Attila Jamilov

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EDUCATION

University of Washington   Seattle, WA, Sep. 2023 - Mar. 2026
Bachelor's of Science, ACMS: Discrete Math and Algorithms, Computational Finance and Risk Management

- Competitive Programming Club,
- **Relevant Coursework**: Data Structures, Algorithms, Financial Markets, Combinatorics I and II, C++ programming, Linear Optimization, Discrete Optimization, Machine Learning with Application to Finance, Probability, Scientific Computing, Database Management, Programing Languages, Artificial Intelligence, .

Bellevue College   Bellevue, WA, Sep. 2021 - June. 2023
Associate's of Arts and Sciences, Running Start Program

- **Relevant Coursework**: Calculus I, II, III, and IV, Computer Science II.

WORK EXPERIENCE

Research Assistant   Jan. 2025 — Present
Math AI Lab, University of Washington   *Seattle, WA*

- Developed a Python-to-Lean4 interface layer, enabling seamless interaction between LLMs and PyTorch models with the Lean4 theorem prover we built to validate proof steps generated by AI models.
- Implemented an A* search algorithm with custom heuristics to efficiently traverse proof state trees, optimizing the search for formal proofs in a tree-based framework.
- Integrated the LeanDojo (299M) model for tactic generation, achieving a 28.7% success rate on the miniF2F-test benchmark of 244 Olympiad-level math problems.
- Designed a flexible framework to evaluate multiple LLMs and models, streamlining testing and comparison of proof generation performance.
- Contributed to PyPantograph, enabling Windows compatibility for the Python-Lean interaction package.

AI Coding Analyst   May. 2024 — Jan. 2025
Scale AI

- Improved LLM performance by designing prompts to generate incorrect code outputs, then debugged and rewrote the generated code to meet prompt requirements, improving the accuracy and reliability of multiple LLMs.
- Oversaw code contributions from team members, reviewing and refactoring their code to ensure client's need are met by deadlines, while maintaining high-quality coding standards.
- Supported contributors by providing targeted feedback and code optimization suggestions.

PROJECTS

Auction API Analyzer (https://github.com/attilajam/hypixel-skyblock-auction-scanner)   2024

- Built a Go backend that fetches 60,000 auctions from the Hypixel Skyblock API, merges data with the Coflnet API using a union operation, and leverages Go routines for faster data processing.
- Developed a front-end with Go templates, enabling users to search auctions and apply filters like minimum price and profit to identify undervalued items quickly.

OPEN SOURCE CONTRIBUTIONS

Book's Story - Android eBook reader (https://github.com/Acclorite/book-story/issues/227)   2025

- Fixed an issue with the image parsing, where URL Encoding was not being decoded properly.

SKILLS

Languages: Python, Go, C/C++, Rust, HTML, CSS, JS, OCaml, Ruby, R
Frameworks: Flask, Go templates, Fast API
Developer Tools: Git, ssh, Google Cloud Platform, AWS, VS code, Visual Studio, Neovim
Documents: Typst, Latex
Libraries: NumPy, pandas, requests, Selenium, BeautifulSoup, PyTorch, Asyncio, tensorflow, matplotlib, scikitlearn
Interests: Rock climbing, Books, Manga/Manhua, Linux (Arch, Hyprland).