Steven Zhuang

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Education

- **University of Toronto, St. George Campus (with 3.8/4.0 cGPA)** — Toronto, ON
  Honours Bachelor of Science, Data Science Specialist & Computer Science Major — *Sept. 2024 – June 2029*

Projects

- **Self-Modeled Gemma-based Custom LLM**
  June 2026 – Present
  - Performed data cleaning on personal text messages over multiple years and compiled a dataframe to train a Gemma 7B model to emulate personalized speech.
  - Used extensive knowledge of databases and data frames using Python's NumPy, as well as methods of data analysis to train LLMs using AMD's ROCm platform.

- **Music Sentiment Neural Network Data Analysis**
  Februrary 2026 – April 2026
  - Led a team of three in developing a machine learning project to analyze and predict song sentiment using exploratory data analysis and model comparison, with a final model performance of over 78% accuracy.
  - Built and evaluated multiple models including Keras neural networks, random forests, and logistic regression using Python's Pandas, NumPy, SciPy libraries, as well as Jupyter Notebooks.

- **Discord Gemini General Purpose AI Training Bot**
  Janurary 2023 – June 2026
  - Built a conversational AI chatbot account using Google's Gemini and OpenAI models for informative, real-time inquiries for over 100+ users at peak.
  - Developed a Pythonic backend incorporating Spotify, OpenWeatherMap, and Wikimedia APIs to deliver multi-domain, context-aware, real-time answers.

Experience

- **Software Engineering Intern** — Fraser Innovation Inc.
  April 2025 – August 2025 — *Vancouver, BC*
  - Performed preliminary research on transistion to software-as-a-service (SaaS) for open-source custom model hosting for various small scale businesses in the local vicinity.
  - Created testing suites and metrics in Python for model speed, then performed exploratory data analysis for regression models pertaining to parameter values and model responsiveness.

- **Python Prorgramming Instructor** — Self-Employed
  May 2023 – April 2024 — *Vancouver, BC*
  - Taught Python programming and core computer science fundamentals to a class of 10 students through interactive lessons and hands-on assignments.
  - Designed engaging learning materials to introduce concepts such as object-oriented programming, coding best practices, and software development principles.

Programming Skills

- **Languages**: Python (NumPy, MatPlotLib, Keras, Seaborn), Java, R, SQL
- **Languages**: English, Mandarin Chinese (both fluent)
- **Interests**: Sorrowed Toronto Blue Jays fan, fitness enthusiast & geek of modern computational theory