

Gaurav Poona

Software Developer

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Career Objective

Full Stack Developer with a Bachelor's degree in Computer Science and Mathematics from the University of Toronto, proficient in building and deploying scalable applications across diverse platforms. Experienced in both front-end and back-end development, with expertise in delivering end-to-end solutions optimized for speed, reliability, and seamless user interactions.

Education

HBSc. in Computer Science and Mathematics *University of Toronto*

Technical Skills

Languages: Python, JavaScript, SQL (PostgreSQL), Java, TypeScript, C, Kotlin, HTML/CSS, Bash, R

Frameworks: React, Next.js, Node.js, Django, Flask, jQuery, Bootstrap, Tailwind CSS, Vite

Libraries: TensorFlow, PyTorch, OpenCV, Pandas, NumPy, Matplotlib, Scikit-learn

Development Tools: Git, Docker, AWS, Redis, Linux, Jira

Experience

Self Employed | *Outlier*

May 2024 - Present

- Improved **LLM-generated coding responses** to beyond **state-of-the-art (SOTA)** models by **refining algorithms**, structuring **modular components**, **enhancing error management**, and ensuring reliability through **extensive unit tests**.
- Tackled various coding challenges**, delivering **clean and efficient solutions** in different languages and frameworks, including **JavaScript, Python, Node.js, Next.js, and Angular**.
- Engineered multi-turn prompts** and assessed **model responses** to improve **conversational flow** in **natural language interactions**.
- Promoted to reviewer** after receiving positive feedback from TLs, reviewing the work of **over 50 project contributors** to ensure quality and consistency.
- Provided detailed feedback** that contributed to improving **response quality** across a large volume of coding prompts, driving **better performance** and **improved project quality**.

Projects

Kick Live | *Next.js, Flask, Redis, Nginx, AWS*

- Developed** a live football scores website and **optimized backend performance** by using **Redis** to **cut response times by 95%**.
- Deployed** the application on **AWS EC2**, providing a **scalable** and **highly available** solution, demonstrating proficiency in **cloud infrastructure** and **system design**.
- Leveraged **external APIs** for real-time data on **10,000+ matches** across **9 leagues**, showcasing strong **data processing skills**.

Decidophobia | *Django, Next.js, PostgreSQL, Docker, Jira*

- Teamed with 6 people** to **design** and **develop** an **online shopping aggregator**, featuring **product listings** from **4 marketplaces**, utilizing **PostgreSQL** for **database management**.
- Engineered a neural collaborative filtering-based recommendation system**, tested on datasets with **100,000+ data points**.
- Led Agile development** by coordinating **sprint planning**, **retrospectives**, and **standups** every two days to ensure **efficient team communication** and **project management**.
- Integrated Docker** for **containerization**, enabling **consistent development** and **production environments**.

Neural Net | *Python, NumPy, Pandas, Matplotlib*

- Built a Python-based neural network framework**, gaining expertise into **ML system design** and **optimization techniques**.
- Incorporated advanced optimizers** like **Adam** and **RMSProp**, **increasing test accuracy by 60%**.
- Trained and tested** neural networks on **multi-class** and **binary classification** tasks, achieving **test accuracy** above **90%**.
- Optimized** the frameworks's performance through the integration of **mini-batch gradient descent**, reducing **training time by 40%** and improving **scalability** for **larger datasets**.