

HETAV PANDYA

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SKILLS

Programming Languages: Python, C++, C, Go, Kotlin, JavaScript, Perl, TCL, Bash
Machine Learning: TensorFlow, PyTorch, AWS SageMaker, Ollama, Docker, KubeFlow
Data Analysis: PostgreSQL, MongoDB, MySQL, Database Design, Power BI
Additional skills: Flask, Git, GitHub, Perforce, Docker, ARM Assembly, FPGA, Linux

WORK EXPERIENCE

- Arista Networks** Vancouver, Canada
Software Developer June 2024 - Present
- Ensuring seamless integration and performance optimization of Microsoft's SONiC OS on Arista platforms.
- Intel Corp.** Toronto, Canada
Software Engineer May 2022 - May 2023
- Developed a graph-mapping tool in C++ for Intel's FPGA Synthesis Team in 2022 Q4.
 - Implemented IP pin-cache to reduce time taken to compile customer designs by 15%.
 - Used profiling tools like **VTune** and **flamegraphs** to optimize code and identify bottlenecks.
- University of Toronto** Toronto, CA
Teaching Assistant September 2023 - April 2024
- Taught **Linear Algebra** and **Calculus** to engineering students at the Department of Mathematics (UofT).
- Bell Inc.** Toronto, Canada
Data Scientist Intern May 2021 - Aug 2021
- Optimized **MySQL** data queries reducing querying time by 20% on average.
 - Developed an automated deep learning pipeline in **PyTorch** and **KubeFlow** to detect potential flaws in new FiBE TV versions, reducing error detection time from 3 weeks to 15 minutes.
- General Motors (GM)** Toronto, Canada
Machine Learning Model Developer May 2021 - July 2021
- Deployed a real-time object detection model with 0.93 mAP using **PyTorch**.

PROJECTS

- Nash Equilibria convergence using RL** *RLib, DQN, PPO, Python* [View Project](#)
Worked with Prof. Lacra Pavel, to develop Reinforcement Learning algorithms that converge to Nash Equilibria in partial information networks like autonomous drone networks and smart power grids.
- Open Hansard** *Llama3, Ollama, Python* [View Project](#)
An open-source initiative to summarize the debates of the Canadian parliament using Llama3 LLM.
- PEY Door** *Claude LLM, AWS SageMaker, Web Dev* [View Project](#)
A first-place winner in AWS Student Hack, it used a Claude LLM in AWS SageMaker to answer student's internship related questions using official internship reports submitted by past UofT students.
- Asphalt 9 Hands-Free Simulator** *Python, OpenCV* [View Project](#)
A computer vision powered gaming interface that allows the user to control and play racing games with hand gestures. A demo test was done on the game - Asphalt 9
- E-Motion** *Python, OpenCV, Selenium* [View Project](#)
A computer vision suite that enables users to play games, read e-books and listen to music using hand gestures. It secured second prize at UofT Hacks VIII

EDUCATION

- University of Toronto - GPA: 3.97** Toronto, CA
High Honors in Computer Engineering with Artificial Intelligence Minor Sep 2019 - May 2024
Cumulative average: 92.5%, ranked #2 in UofT Engineering in 2019-20
Linear Algebra: 99/100 | Electronics: 99/100 | Intro. to Machine Learning: 95/100 | Databases: 95/100

LEADERSHIP EXPERIENCE

- Lead Organizer of 'ML in Vancouver' & 'ML System Design' Group May 2024 - Present
- Strategic and Technical Advisor @ UBC AI May 2024 - Present
- Co-President at UofT Machine Intelligence Student Team July 2021 - July 2022

NOTABLE OPEN SOURCE CONTRIBUTIONS

- Keras - Deep Learning Library [Link to PR](#)
- Sherlock - Open Intelligence Tool [Link to PR](#)
- PettingZoo - Multi Agent Reinforcement Learning Library [Link to PR](#)