Aditya Prasad

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EDUCATION

University of Waterloo	Waterloo, Ontario, Canada
Bachelor of Software Engineering + AI & Human-Computer Interaction Specialization	*Sept. 2024 – Apr. 2029*

TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS, JavaScript, Java, TypeScript, VHDL
Frameworks: React, Next.js, Three.js, PyTorch, Tailwind, OpenCV, scikit-learn, Pandas, NumPy, Keras, YOLO
Developer Tools: Visual Studio, Heroku, Git, Unix, HuggingFace, Colab, AutoCAD, SolidWorks, Vercel, LangChain, Supabase, MongoDB

TECHNICAL EXPERIENCE

Software Engineering Intern Sept. 2025 - Dec. 2025
Shopify *Toronto, Ontario, Canada*
- Incoming Fall 2025

Software Engineering Intern May 2025 – Present
Serve Robotics (Mosaic) *San Francisco, California, USA*
- Incubated to build Mosaic, a next generation competitive intelligence platform targetted at early stage companies
- Built cloud platform with Python/Cloud Functions, 12 API endpoints, 3 BigQuery tables, and 2 Pub/Sub topics
- Developed Next.js frontend, **50+ UI component**, real-time search, and credit management dashboard
- Implemented data pipeline processing **5,000+** profiles in 25-record batches with **25+** database field mappings
- Created AI classification system with OpenAI models, user-defined job categories, facilitated by Crustdata APIs
- Delivered product serving **10+** clients with competitive intelligence tracking rival hiring and strategy

Machine Learning Engineer| *PyTorch* Jan. 2025 – Present
WATOLINK *Waterloo, Ontario, Canada*
- Analyzed **5+** scientific publications on neural networks and BCIs, focusing on non-invasive transcription methods.
- Evaluated **4 advanced EEG decoding models**, aimed to optimize brain signal interpretation efficiency
- Currently implementing research findings using **PyTorch**, aimed to achieve real-time transcription of EEG signals.
- Targeting sub **500-ms** algorithm latency, for applications including a **mind-controlled wheelchair & drone**.

AI Engineering Intern | *Python, HuggingFace, Colab* Aug. 2024 – Present
Preamble AI *Pittsburgh, Pennsylvania, USA*
- Developed **2** enterprise application integration prototypes, demonstrating **40%** improvement in workflow efficiency.
- Conducted market research on **5** AI safety trends, developing **2** proof-of-concept use cases with **90%** feasibility.
- Created **20+ test cases** and identified **15+** critical bugs, improving platform stability by **25%**.
- Built a **Huggingface** Space demonstrating AI safety features, improving model robustness by **20%**.
- Updated **10+ user guides and API docs**, improving clarity and accuracy by **30%**.

PROJECTS

Forg3D - *TartanHacks - 3rd Place, 2025* | *Next.js, Three.js, Story Protocol SDK, Tailwind, Vercel, Git, Clerk c*
- Built a decentralized 3D model marketplace platform using Next.js, employing **Story Protocol SDK** and **Clerk**
- Used Three.js for interactive 3D rendering of various file formats, ensuring smooth visualization and manipulation.
- Styled responsive interfaces with **TailwindCSS** and managed **metadata** using **TypeScript**.
- Pitched Product to **10+** judges, resulting in **3rd Place (Story Track)** at Carnegie Mellon's largest hackathon

Feedforward Neural Network | *C++, Git*
- Developed a neural network using standard libraries in C++ to solve the XOR problem, achieving **97% accuracy**.
- Trained the model with a **500 iterations**, applying **gradient descent** and **sigmoid activation**.

DealyDigest - *HackPrinceton* - 1st Place S25 | *KnotSDK, Next.js, Tailwind, Auth0, Gemini, MongoDB*
- Won 2 hackathon awards securing $46K funding to build AI financial platform analyzing user transactions
- Developed full-stack platform with Next.js helping users capture unused rewards from $1.18T credit card market
- Built recommendation engine using Gemini AI processing spending data to deliver **50+** personalized deals daily.
- Implemented the Knot SDK processing 1000+ transactions to detect missed rewards costing users $500+ annually