Aayush Panda

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Technical Skills

Programming Languages: C++, C, Python, Java, JavaScript, SQL, LISPs
Frameworks: Flutter, Flask, Next.js, Firebase, Google Cloud, Android Development
Data Science: Pandas, SKlearn, Torch, MatPlotLib, NumPy

Education

University of Waterloo — Waterloo, ON, Canada
Bachelor of Computer Science — *Sep. 2024 – Jun. 2028 (expected)*
Relevant Coursework: MATH147 (Adv. Calculus), CS145 (Adv. Functional Programming), MATH135 (Algebra)

Experience

President — Jun. 2021 – July 2024
Woodlands App Team, The Woodlands Secondary School — *Mississauga, ON, Canada*

- Architected and developed a **Flutter** application to inform students about announcements, events, cafeteria menu, and general school information.
- Integrated Firebase and Google Cloud Storage for user authentication and storing school-related information.
- Used by **400** users and reached rank **70** on the Apple App Store's top charts.

Founder and Co-President — Dec. 2021 – July 2024
hack::peel — *Mississauga, ON, Canada*

- Organized a Peel-region high school hackathon with **100+** participants.
- Arranged sponsored prizes valued at **$20,076**.
- Developed the hackathon website and public-facing materials.

Director — Dec. 2022 – Present
Toronto Model United Nations — *Toronto, ON, Canada*

- Managed a **$60,000** budget for TMUN2023, Toronto's biggest Model UN conference with **400+** attendees.
- Developed and maintained the conference website, which received over **2**k visits per week.

Projects

DAO Based Crypto Token Mutual Fund | *Smart Contracts, Axelar, 0Squid, Node.js, Next.js* — Sep. 2022

- Won 2 prizes for best Web3 app at Hack the North 2022.
- Used Smart Contracts with Axelar to perform cross-chain transactions and 0Squid to convert tokens.
- Integrated Web3 backend with frontend using Node.js and Next.js.

Patents

CA 3119717: Compliant mechanism for operating flight control surfaces of a remotely piloted aircraft.

CA 3222437: Device for redirection of optical beams using virtual gratings generated by stationary waves .

Awards

Jane Street Estimathon @ UWaterloo (2024): First place

Hack the North 2022: Winner

PicoCTF 2022: 2nd place in Canada, 14th (top 0.001)% globally

FIRST Innovation Challenge 2021: Semifinalist