

NIREK SHETTY

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EXPERIENCES

Co-Founder

Sep. 2024 - Present

Contractual

Toronto, ON

- Created a platform that allows small contracting companies and individual contractors to compete for government contracts
- Helped contractors and companies score over **\$600,000** in government contracts with the Canadian government through a multi-step process that enhances and simplifies the user experience of contract bidding
- Boosted platform responsiveness by **136x** by implementing Celery and Valkey for background task processing

Admin Team

December 2023 - Present

Hackathons Canada

Toronto, ON

- Spearheaded fundraising efforts, securing over **\$45,000** in sponsorships and in-kind contributions to support national hackathons and technology events across Canada.
- Led a team of 11 individuals, providing strategic direction, fostering collaboration, and ensuring the successful execution of multiple large-scale events.
- Helped run social media campaigns that amassed over **25 million+** views
- Ran events for over 600+ High School and University students, managing over 20 volunteers

PROJECTS

nirekshetty.com/projects.html

Voyager-O | React, Python, Procfile —

October 2024

AI-powered tool for analyzing space data, providing automated insights and visualizations to streamline scientific research

- Built in under 48 hours this project won Global Nominee at the worlds largest hackathon NASA Space Apps
- Renders all **5,849** planets in the NASA exoplanet archive and over **2 billion** stars
- Used shaders to limit GPU latency and Planck's law to provide accurate colour depictions

AGEile | Swift, Python, React, PostgreSQL, —

Jan. 2024 - Present

AGEile is an IOS app designed to isolate fall predictors in seniors

- Developed an iOS app for seniors and a web client for physiotherapists to monitor and manage mobility data, integrating ESP32 hardware tethered via BLE

AWARDS AND ACHIEVEMENTS

- Silver Award, IOAI Canada (National Selection)
- NASA Space Apps Global Nominee (93.5k participants)
- CCC Junior Group 2 Honour Roll (73/75) Test Score
- 3rd Rank, Canadian National Math Contest Thale (7,000 participants)
- 5x Waterloo Distinction Winner (Pascal, Gauss, etc.)
- Best Rookie Hack, Halton Hacks
- 2nd Place Design Award, FIRST Tech Challenge (Mississauga)
- 3rd Place Connect Award, FIRST Tech Challenge (Bolton)
- Certificate of Achievement, Canadian National Fluid Power Association
- Honour Roll Student, Brebeuf College School
- Silver+, Ontario Band Association (Invitation to Nationals)

FORMAL EDUCATION

Brebeuf College School

Toronto, Ontario

- **Extracurriculars:** STEAM Council, Trivia Team, Robotics, Baseball, Frisbee, Senior Band, Science Fair
- **Course Load:** AP Calculus AB, AP Calculus BC, AP English, AP Computer Science,

SKILLS

Languages: Python, Java, JavaScript/Typescript, Swift, Kotlin, , HTML, CSS/SCSS

DevOps Tools: Linux, Caddy, Nginx, traefik, Docker (Swarm, Compose, BuildX), Cloudflare, WireGuard, GitHub Actions

Tools/Frameworks: Django, FastAPI, Flask, React, Svelte, Astro, Gin, Celery, Postman, Tailscale, Git

Databases: PostgreSQL (PostGIS), SQLite, RocksDB, Valkey, Redis, MongoDB

Specializations: Backend Web Development, AI + Machine Learning, System Administration, Mobile Development