NOM PHAN

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EDUCATION

Drexel University **Philadelphia, PA**

Bachelor of Science in Computer Engineering · **Cumulative GPA: 3.87/4.00** *Expected: Jun. 2023*

SKILLS

Programming Languages: Python, JavaScript, C#, Typescript, HTML, CSS, SQL

Libraries & Frameworks: .NET, RESTful API, SOAP API, PostSharp, ReSharper, Git, Perforce, Unity, Agile, Jira, Notion

Web & Mobile: React.js, React Native, Blazor, ASP.NET, MongoDB, Heroku, Firebase, Node.js, D3.js

EXPERIENCE

Susquehanna International Group (SIG) **Bala Cynwyd, PA**

Full-Stack Engineer Co-op *Sep. 2021 - Present*

- Develop SOAP microservices that handle trading business logics for 30 offices in 7 countries to verify 10000+ trading records (**C#, .NET Framework, PostSharp, ReSharper**)
- Implement multi-threaded programming to store 3000+ XML files of hiring histories to SQL database, reducing 25% loading time of internal web app
- Build web page for querying employees information used by 30+ hiring managers, saving 100+ hours of work per month (**C#, Blazor, ASP.NET**)

Sharing Excess Inc **Philadelphia , PA**

Front-end Engineer & Project Manager Co-op *Sep. 2020 - Mar. 2021*

- Led the development of web app that monitored delivery of 4+ million pounds of leftover food from 200+ grocery stores to 100+ recipients (**JavaScript, React.js, Firebase, HTML 5, CSS**)
- Trained and managed a team of 3 software engineer interns to develop 15+ features that scale web app to 5+ campuses in Pennsylvania (**Jira, Notion**)
- Delivered **Squarespace** website with $400 budget within 6 months, growing 30% the number of new volunteer drivers

TMC Advertisement Group **Ho Chi Minh, Vietnam**

Front-end Developer *Jun. 2020 - Sep. 2020*

- Initiated and deployed 5+ landing pages for products marketing within 3 months, saving $1000 of digital marketing expenses annually (**JavaScript, React.js, Heroku, Gmail API, HTML 5, CSS**)

Drexel Building Autonomy And Simulation Lab (BASL) **Philadelphia, PA**

Drone Engineer - Control and Planner *Sep. 2019 - Jun. 2020*

- Engineered a drone system to collect 1GB+ of data for building simulation, using 3 sets of DJI drones and IMU sensors
- Spearheaded the development of indoor mission planner software using **C#** and **.NET Framework** to autonomously control and display real-time 3D location of a drone, achieving 90% precision of coordinates data

PROJECTS

DeepSign Game • 1st Place Overall and Best Social Good Hack - Drexel DragonsHack *Apr. 2021*

- Programmed endless game that teaches 26 American Sign Language (ASL) alphabets (**Unity, C#**)
- Established UDP connection to process 29 hand gesture outputs from machine learning model (**Python, OpenCV**)

Reinforcement Learning Web App • Stanford TreeHacks *Feb. 2021*

- Built web app for creating, training, and analyzing 3 reinforcement learning models (**React.js, Typescript, D3.js**)
- Integrated algorithm outputs (DQN, DDQN, REINFORCE) to render cart-pole balancing animation (**Vanilla JS**)

DELISA Mobile App • 1st place out of 17 teams, Environment Sustainability Challenge - Philly Codefest *Nov. 2020 - Jan. 2021*

- Coded a cross-platform mobile app to help reduce food waste by tracking food expiration dates and auto-generating 200+ meal plans weekly (**React Native, Redux, Typescript, Spoonacular API, Google Map API**)

LEADERSHIP & AWARDS

Drexel Institute of Electrical and Electronics Engineers (IEEE) • Workshop Director *Jun. 2021 - Present*

- Direct a committee of 7 workshop chairs to plan and host 8 events (Python, Raspberry Pi, Intro to Hackathon) annually

Campus Philly Tech Scholars • Scholarship Recipient *Oct. 2021*

- Received $1000 scholarship as a racially diverse college student that contributes to non-profit tech companies

Top 10, Hardware Finals • MakeHavard *Feb. 2021*

1st Place out of 95 teams, Social Good Track • Rutgers Hack *Oct. 2020*

Best New Entrance Award • Micro Air Vehicle Students Challenge by Vertical Flight Society *Jun. 2019*