

Andrew Chen

andrewchen.uk

EDUCATION

University of Waterloo

Bachelor of Computer Science - 3.8/4.0 GPA

Extracurriculars: Hack the North Organizing Team 2024, Quizbowl, Computer Science Club

Waterloo, ON

Sep 2022 – Jun 2026

EXPERIENCE

Backend/Infrastructure Developer

Hack the North

March 2024 – now

Remote

- Overhauled CI/CD pipelines, speeding up builds by 35% by parallelizing testing and type checking
- Designing and implementing a new hardware inventory system to manage loans of hardware to event attendees

Software Development Intern

ETHGlobal

May 2023 – Sep 2023

Remote

- Architected and built a Notion-like editor used by top companies to make interactive tutorials for >3000 learners
- Shipped a media application pipeline for [ETHGlobal events](#), reducing review time for a candidate by 50%
- Resolved four production downtime incidents within 30 minutes of first report as part of the on-call team
- Wrote an internal dashboard that kept operations informed about swag inventory, reducing data requests by 23%
- Championed and shipped new volunteer and mentor application review dashboards for our event in <2 weeks

Innovation Developer

Royal Bank of Canada

Jul 2022 – Sep 2022

Toronto, ON

- Increased Lighthouse accessibility score by 20% by responsively redesigning a bug bounty dashboard
- Reduced query times by 22% via a refactor of Python Elasticsearch client from synchronous to async I/O
- Increased test coverage to 92% by writing end to end and unit tests for dashboards with Starlette
- Reduced dashboard load time by 38% by implementing a stale-while-revalidate caching strategy

Software Development Intern

Momento

Apr 2022 – Jul 2022

Sunnyvale, CA

- Owned end-to-end development and maintainance of podcaster-facing dashboards and user-facing site
- Shipped shareable mobile cards and recommendations for users, the first social features on the app experience
- Increased page visits by automating the generation of SEO "best podcast" lists with GPT-3

HACKATHONS

- **Winner of Hack The North 2023**, an event with over 1000 participants for building [CheetCode](#)
- **3rd Place at UoftHacks 2023**, an event with over 600 participants for building [wayback](#)
- EdTech category winner at Simon Fraser University's StormHacks 2022 from 388 participants

PROJECTS

wayback [↗](#) | React, Figma Plugins

- Created a transpiler which converts Figma frames into React code that leverages components from a user-specified design system
- Fine-tuned a model on semantic text analysis on contents of Figma components, relative sizing, and color in order to determine which component and variant to use
- Built a demo site which showcases how the transpiler output can be themed to different systems

Colormatch [↗](#) | Golang, React, Protobuf

- Developed an API which autogenerates posters and data visualizations for users based on their Spotify history
- Concurrently collaged images, **reducing processing time by 300%** over synchronous implementations
- Fully implemented the Spotify Auth Code OAuth2 flow with automated refresh of expired access tokens
- Spread application into various microservices deployed with Docker and Kubernetes to allow for easy deployment

TECHNICAL SKILLS

Languages: TypeScript, Golang, JavaScript, Python, C++, PostgreSQL, R, HTML, CSS

Frameworks: React, Node.js, Next.js

Developer Tools: Terraform, Linux, Git, Github, Docker, Kubernetes, Github Actions, AWS, GCP