Amar S. Gill
Software Engineer

EDUCATION

McMaster University
B. Eng. Mgmt, Civil
Apr 2016
Five-year program combining engineering with business

Next Academy Bootcamp
Full Stack Web Development
Sep 2019
Ten-week intensive coding bootcamp culminating in launch of an app idea

KEY TECHNOLOGIES

Front End

VueJS	ReactJS
NextJS	SvelteJS
Tailwind CSS	ThreeJS
Responsive UI	Cypress

Back End

NodeJS	Go
PostgreSQL	MongoDB
Micro-Services	RabbitMQ
Typescript	Jest

Dev Ops

Prometheus	Grafana
Google Cloud	Jenkins

PERSONAL PROJECTS

https://demo.arkbeam.com
Boostrapped SaaS product

https://clima-viz.vercel.app
Climate data visualization

SELF STUDY

Practical Deep Learning for Coders
https://course.fast.ai
NLP, CNNs, Recommendation Systems

Nand2Tetris Part I
University of Jerusalem Online
Logic gates, chip design, assemblers

CONTACT

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WORK EXPERIENCE

Clearco (formerly Clearbanc)   **Software Engineer II**
Toronto, ON   **August 2022 – Present**

- Re-engineered third party integration to eliminate redundant API calls resulting in annual savings of $300,000 USD annually
  - Leveraged Redis, RabbitMQ, webhooks, AsyncLocalStorage and distributed systems architecture
- Stewardship of 10+ critical ETL pipelines used in all aspects of the company's business model
  - Used Prometheus to enable real-time visibility into latency, memory consumption, and retries
  - Resulted in improved system reliability and faster incident response times
- Re-architected the team's deployment pipeline, by implementing continuous integration and delivery, reducing time to test and deploy features by 90%
- Re-engineered the proprietary invoicing system, enabling a more flexible capital product offering and improved cash flow for the business

Clearco (formerly Clearbanc)   **Software Engineer**
Toronto, ON   **Nov 2020 – July 2022**

- Implemented a novel algorithm to account for time value of money in financial models used by all deals made by company
  - 25% more capital deployed over all through improved offer accuracy
  - Saved dozens of hours for risk & diligence team by eliminating manual escalations
- Developed the proprietary invoicing system that automatically pause and adjust invoices in real time, saving dozens of hours each month for operations
- Developed the technical specifications and then delivered the front end redesign for the customer facing application
  - Lead to 20% faster capital spend by founders on new design
  - 25% reduction in customer support requests

ArkBeam (arkbeam.com)   **Founder**
Toronto, ON   **Nov 2023 – Present**

- Solo founder and engineer for a bootstrapped B2B SaaS app
- Technologies used: libSQL, NuxtJS, TipTap, Cloudflare Workers

Open Source Project Contributions

- PropelAuth
- SvelteJS
- NuxtJS
- TipTap