

AMNISH SINGH ARORA

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A versatile Software Developer with a skillset including **Web Development**, **Mobile** and **DevOps**, eager to work as a Full Stack Developer on an impactful project.

Profile

- A detail-oriented **team player** experienced in **architecting** and **building** projects as team lead
- Love exploring new technologies and contributing to **open-source** projects
- Sharing insights about my work by writing **blog posts** at [Dev.to](#)

Experience

Frontend Developer – Ontario Treasury Board Secretariat

Sept 2022 - Present

- Worked as an **Angular** developer within an **Agile** team on OnTrack, a large enterprise application integrating multiple legacy systems for the Cabinet Office and the Treasury Board
- Implemented features requested by clients and fixed bugs that were raised closing more than **150 tasks** to date
- Played a key role in a **major feature redesign**, successfully implementing **26 User Stories** within a single 2-week sprint
- Initiated as a co-op student and subsequently secured four consecutive contracts due to **demonstrated reliability** and **high performance**

Technical Skills

- **Frontend Development:** Capable of building highly interactive and accessible web applications leveraging modern Frontend frameworks like **Angular** and **React** on top of HTML, CSS, and Vanilla JS.
- **Object-Oriented Programming:** Deep understanding of both object-oriented and procedural paradigms with experience in **C/C++**, **Python**, [Java](#), **C#**, and **Swift**
- **RDBMS Development:** Proficient in designing normalized database models with understanding of **ACID** properties and writing complex **queries** with different flavors of **SQL** like **Oracle** and MySQL
- **AI Programming:** Ability to integrate valuable features in web applications by leveraging Large Language Models provided by major players like **OpenAI**
- **Backend Development:** Experienced in creating **secure** and reliable REST APIs and server side rendered apps with **Express.js (TypeScript)** and **ASP.NET**
- **Cloud Computing:** Deep understanding of Cloud Fundamentals, **Docker**, and experience in leveraging services provided by major cloud providers like **AWS**, **Azure**, and **Google Cloud** to design and build distributed web applications
- **NoSQL Databases:** Basic understanding of different types of NoSQL databases and experience with using Document type databases like **MongoDB** to power full stack web applications
- **Collaboration and Version Control:** Solid understanding of advanced **Git/GitHub** workflows and experienced in collaborating on projects using cloud platforms like **Azure Devops**.

Projects

Dine-A-Night:

- A well-designed and highly customizable restaurant **reservation** application, allowing restaurant owners to sign up and build **dynamic restaurant layouts**, customers to make reservations at restaurants with the ability to **visually** select where they sit, and admins to **monitor** and **analyze** upcoming and historical reservations
- Built on top of a complex distributed [architecture](#), with **Angular** on Frontend, **Express.js** for API and business logic, **MongoDB** for structured data storage, **Firebase** for authentication and blob data storage, and **Google Cloud** for Maps and Address Autocomplete features
- Comes with a comprehensive [User Manual](#) and [YouTube Demos](#) for onboarding new users, and providing relevant information to interested investors

URL: <https://dine-a-night.web.app/home>

ChatCraft:

- [3rd largest contributor](#) on a developer oriented Open-Source **AI chatbot**, featuring extremely flexible providers/models configuration, speech capabilities, image processing/generation, and many more cool features
- Integrated **Text-to-Speech** capabilities like streaming audio messages in real-time, ability to pick different voices, and downloading messages as audio with **concurrent** API calls improving **download speeds** by **500%** and allowing downloads of [infinitely long messages](#) bypassing OpenAI max input limit
- Implemented experimental features like [Web Handlers](#), allowing users to call their own **backend functions** within ChatCraft, effectively allowing users to plug and play their microservices
- Wrote several [blog posts](#) about my work, and made a [YouTube Demo](#) of Text to Speech implementation process

URL: <https://github.com/tarasglek/chatcraft.org>

Sugary Pills:

- An Angular application that effectively gathers diabetes-related data through a quick survey. The collected data is fed to an interactive reporting system, that generates dynamic graphs, on the fly, based on lifestyle choice filters.
- Built in 3 days as a solution for Seneca **Smart Cities Hackathon** [challenge set](#) by utilizing libraries like **Angular Material UI** (with custom theming), **Tailwind CSS**, and **ng2-charts** (for graphs)

URL: <https://dia-ui.firebaseio.com/home>

Education

Advanced Diploma: Computer Programming and Analysis
Seneca College of Applied Arts and Technology - Toronto

Sept 2021-April 2024

- Named to President's Honor List in [all semesters](#)
- Graduated with a perfect GPA of 4.0 and **high honors**
- Gained skills and knowledge to begin career as a software developer