**David Zhu** |[davidzhu6152@gmail.com](mailto:davidzhu6152@gmail.com) [github.com/davidzhutoronto](https://github.com/showtimez)

**TECHNICAL SKILLS**

**Programming languages**

**& Other services:**

**Operating systems:**

**Hardware:**

**Other skills:**

C, C#, C++, Java, Oracle SQL, JavaScript, React, Angular, NodeJS, MongoDB, Heroku, HTML, CSS, Python, Swift, Android Java

Unix/Linux (CML), Windows 10/7/XP, MacOS, HiveOS

Networking, TCP/IP, PC components

Technical writing, data analysis, technical writing, project management

**EDUCATION**

**Advanced Diploma, Seneca College** May 2020 - August 2022

Computer Programming & Analysis GPA 3.9/4.0

Object-Oriented Software Development using C++, Web Programming Tools and Frameworks (NodeJS, MongoDB, ExpressJS, Template Engines), Web Programming for Apps and Services(Angular, React, Bootstrap, jQuery), Java Programming, iOS development, Advanced Database Services, Software Analysis and Design

**Honours Bachelor of Science, University of Toronto**  September 2011 - March 2016

Mathematics & Physical Science

Algebra, statistics, calculus, discrete mathematics, logic, algorithm

**PROFESSIONAL EXPERIENCE**

**Full Stack Developer (intern), MyPlanetPlan** August 2022- February 2023

*MyPlanetPlan* ([myplanetplan.org](https://myplanetplan.org/)) is a sustainable bucket list web app that allows you to browse, create and track your goals for living an eco-friendly lifestyle. Be sure to check it out on your mobile device for the best experience.

* Drafted and finalized system design and technical documentation, including advise report, functional design, technical design, system and database design, github readme and code standards
* Worked on front-end implementation using React to create components, used React Bootstrap frameworks, e.g., Form, Modal, Grid, etc., as well dedicated CSS to customize responsive web pages for both general pages and admin panel. Realized 10+ components and pages.
* Designed and Developed 10+ back-end API endpoints for the front-end on MVC pattern by using Express Node.js web application framework. Wrote SQL queries to manage communication between endpoints and the Postgres database. Protected, unit-tested, and documented these endpoints using various libraries, e.g., KeyCloak, Jest Supertest, and Swagger
* Code reviewed, debugged, and commented on average 3 pull requests weekly
* Composed front-end, back-end, and database into Docker Containers and deployed them onto the server

**PT Blockchain Consultant** March 2017- March 2020

* Focused on helping clients to develop strategies, digital transformation roadmaps, and innovative business model leveraging blockchain technology
* Provided strategic advice to various startups in the blockchain/cryptocurrency industry
* Build, maintained, and diagnosed bitcoin and Ethereum mining farms, typical ROI is over 80%
* Provided insights by leveraging cryptographic principles, data dependencies, consensus protocols, algorithms and various design patterns