

# Darren Wang

## Software Developer

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### Experience

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#### GrainFox

Junior Software Developer *September 2022 - May 2023*  
Co-op Software Developer *January 2022 - September 2023*

- **Building front-end user interfaces** and generic components with Vue.js, using both TS and JS, for Farm Profile, AI Advisor, ROI Calculator pages, and various other pages.
- Implemented **backend view functions, business logic in Python** and writing database query functions using Django ORM.
- Worked on integrations with third party APIs such as the John Deere, GrainFox ML Team, AgExpert, including data fetching, data processing methods, graceful failure, exponential backoff.
- Updated and **maintained CI/CD pipeline on GH Actions** and container configuration for Docker.
- **Wrote tests to ensure 80%+ test coverage** on frontend and backend contributions using Jest/Mocha and PyTest.
- Participated in Agile environment, daily scrum meetings, biweekly sprints, and sprint planning meetings.
- Took part in ensemble and pair programming sessions and code reviews.

#### Benchmark International

Digital Consultant/Software Dev *June 2021 - January 2022*

- **Designing and developing a web application** that allows for the access of information in a PEDYN/Microsoft Access database from a smartphone, tablet. Made using .NET Core MVC in Visual Studio.
- Developed and implemented a JavaScript web app that calculates the required oxygen usage for prospective customers.
- Redesigning and updating company websites to support inbound marketing using SEO methods.

### Education

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#### University of Alberta

B.Sc. in Computer Science *September 2018 - May 2024*  
Biological Sciences Minor

- **Major Specific GPA: 3.6** -- Graduation with First Class Standing
- **Focus on algorithms, software engineering, coding practices.**
- Deep understanding and experience with various forms of testing: black/white box, fuzz testing, JMeter, A/B, Chaos Experiments.
- In depth knowledge of database management systems, and implementation of buffer management functions in C. Class project of creating forum boards using SQLite and MongoDB.
- Exploration into web technologies, HTTP, AJAX, TLS, etc. with project of a distributed social network.
- Experience with machine learning and image processing architectures, structures, and strategies.

### Skills

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#### Programming Languages:

- Python, C++, Java
- JavaScript, TypeScript
- SQL, NoSQL, SparQL
- HTML5, CSS

#### Frameworks and Libraries:

- Django, Flask,
- Vue.js, React, Nest.js
- .NET Core, .NET Framework
- Pandas, scikit-learn, scikit-image

#### Development Tools:

- VSCode, Visual Studio, Android Studio, PyCharm, Live-Share
- Git (GitHub, Azure DevOps)
- Docker, GitHub Actions
- Atlassian Suite

#### Databases:

- SQLite, PostgreSQL, MySQL
- MongoDB, Firestore
- Amazon Athena

#### Personal:

- Experience with software patterns, clean code, and strong OO principles.
- Strong oral, written, and interpersonal communication skills.
- Adaptive learner and open-minded, always willing to learn.

### Personal Projects

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#### Markdown Renderer (React, TS):

- Webapp for markdown editing with accompanying preview pane. Made with React + TypeScript.

#### ASCII Art Converter (Python):

- Convert PNGs to ASCII Art

#### Discord Bot (Python, discord.py):

- Bot to allow fast access of user information using message commands.
- Creating and integrating MySQL Database