Darren Wang
Software Developer

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Experience

FarmLink Marketing Solutions

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

University of Alberta

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

- **Major Specific GPA: 3.5** -- 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

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

Frameworks and Libraries:
- Django, Flask,
- Vue.js, 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

ASCII Art Converter:
- Convert PNGs to ASCII Art

Web Forum Development:
- Forum board implementation: direct messages and authentication API using Flask.

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

References Available Upon Request