ANNIE WONG

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TECHNICAL SKILLS

Languages: Python, Java, HTML, CSS, JavaScript, Racket, C, C#, SQL, Bash
Frameworks/Libraries: React.js, Next.js, React Native, Tailwind CSS, NumPy, Pandas, Matplotlib, YFinance, ASP.NET
Tools: Jupyter Notebook, GitHub, VS Code, Linux, MS Office Suite, Excel, Figma, Power BI, Rest API, Microsoft SQL Server
Soft skills: attention to detail, fast and adaptable learner, cross-functional collaboration, self-motivated, problem-solving

EXPERIENCE

Fullstack Developer May 2025 – Present
SparkLease Inc. *Toronto, ON*

- Led development of a high-impact vehicle offer feature, integrating backend logic with the frontend display layer using **C#**, **ASP.NET MVC**, and **REST APIs**. Delivered seamless end-to-end functionality now used across **85%** of dealer-facing pages.
- Increased system reliability by developing comprehensive **unit tests** across the ASP.NET MVC layer, validating business logic and backend logic in isolation, ensuring consistent data flow across layers and reducing integration defects by **40%.**
- Engineered a dynamic UI module to compute optimal offer bundles using a constraint-based compatibility matrix and backtracking algorithm, factoring in term length, interest and stackable incentives to present the most cost-effective offer.
- Enhanced a data synchronization pipeline with J.D. Power's LenderDesk API by authoring advanced **SQL queries** and automating processes with C# WebJobs, reducing processing time by **89%**. Leveraged **Azure Cloud Storage & Metrics** to increase data integrity and expand logging coverage across **4000+** vehicle records, maintaining a **99.97%** sync accuracy.
- Improved **SEO** by streamlining **URL structures** and auto-generating sitemaps to enhance crawlability and search visibility.

Frontend Developer Dec 2024 - Present
WATOLINK Neurotechnology Design, University of Waterloo *Waterloo, ON*

- Spearheaded the redevelopment of the team's website using **React** and **Next.js**, implementing responsive mobile design, new features, and performance optimizations to effectively promote ongoing cutting-edge BCI projects and research.
- Strengthened the site's functionality by reviewing **pull requests**, **debugging errors**, and enhancing overall performance.

CxC Data Science Hackathon Executive Member Dec 2024 – Mar 2025
University of Waterloo Data Science Club *Waterloo, ON*

- Planned and executed end-to-end logistics and activities for Canada's largest Datathon, managed **$30K+** in funding for purchases of food, equipment, prizes, and directed **300+** participants to ensure a streamlined flow of the event.
- Designed and implemented a dynamic dashboard by integrating **Microsoft Excel** with **Power BI**, achieved real-time visualization of participant performance metrics, increased participant engagement, and showcased activity trends.

PROJECTS

Stock Portfolio Optimizer | *Python* | *NumPy* | *Pandas* | *Matplotlib* | *SciPy* | *Jupyter Notebook* Nov 2024

- Devised an algorithm to strategically select stocks from a list of tickers based on quantitative indices and formed a portfolio that beat the returns of TSX 60 AND S&P 500 indices by **20.5%**, and visualized insightful trends with **matplotlib**
- Optimized Sharpe ratio and beta values for the portfolio with **SciPy**, results increased the efficiency of code by **95%**

InvolveU | *Python* | *NumPy* | *Pandas* | *Matplotlib* | *SciPy* | *Jupyter Notebook* Nov 2024

- Created a mobile app using **React Native** and **Django** to boost student engagement in extracurriculars through a points-based competition and integrated front-end and back-end applications to allow teachers to track student participation
- Engineered multiple interactive pages from scratch and optimized **UI/UX** to facilitate seamless user interactions

AWARDS AND ACHIEVEMENTS

Hack the Market Finalist, *University of McMaster DeGroote Finance and Investment Council* Jan 2024

- Conducted quantitative analysis using **Python** and **object-oriented programming** in Python, implemented simulation models to evaluate buy-side and sell-side stock transactions, and visualized results with **matplotlib**

CFM scholarship ($3,000) and President's Scholarship of Distinction ($2,000), *University of Waterloo* Jan 2024

EDUCATION

Candidate for Bachelor of Computer Science and Financial Management (CGPA: **92%**) Sep 2024 - May 2029