Ken Jiang

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EDUCATION

University of Waterloo — Waterloo, ON
Honours Computer Engineering, B.A.Sc. Candidate — *Sep 2020 – Apr 2025 (Expected)*

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C#, C/C++, HTML/CSS, SQL
Frameworks/Libraries: React, Vue, Node, Django, Next, Jest, Tailwind, .NET, TypeORM
Tools: Git, Docker, AWS (S3, EC2), GCP (BigQuery, Cloud Run), SQL Server, PostgreSQL, MongoDB, Unity

EXPERIENCE

Sentry — Sep 2024 – Present
Software Engineer Intern — *San Francisco, California*
- Streamlining internal productivity on the developer infrastructure team with **Django** and **GCP**

Vontive — Jan 2024 – Apr 2024
Software Engineer Intern — *San Francisco, California*
- Introduced aggregated real estate and market pre-qualification data via a **Vue** and **TypeScript** dashboard preventing resource wastage on unserviceable loans
- Owned full design of a third-party electronic document signing integration, lowering time to dataset completion for **6000+** annual documents by **40** times
- Implemented a **webhook** handler which automatically extracted data from signed documents, and uploaded them to **AWS S3** and **PostgreSQL**, eliminating manual user intervention
- Proxied sensitive data through **Very Good Security**, offloading encryption of Social Security Numbers, Account Numbers and other PII

Senstar — Jan 2023 – Apr 2023
Software Developer Intern — *Waterloo, Ontario*
- Owned design and development of all hardware device integrations into Senstar's client allowing for seamless addition of new perimeter security hardware through a **.NET C#** and **C++** back-end
- Built a reusable upgrade pipeline automatically converting legacy hardware implementations to newer integrations stored in **PostgreSQL** and **SQL Server**, increasing client security, feature adoption
- Enhanced a **TCP-based** access control security system event handler to support 100+ concurrent connections using **multi threaded sockets**, allowing many clients to send security commands simultaneously
- Revamped a **TypeScript** canvas control to allow for precise pixel-level masking of video feeds, allowing a user to restrict the processing region of face recognition and license plate detection increasing speed and accuracy

Shoplogix — May 2022 – Aug 2022
Software Developer Intern — *Oakville, Ontario*
- Developed an extensible settings management system in **C#** and **TypeScript**, allowing plant, area, and machine level configuration with support for overriding and inheritance massively simplifying company-wide customization
- Built 5+ API **endpoints** in **C#** with **Nancy** which fetch data from **PostgreSQL**, exposing per user configuration options and simplifying machine **OPC** data collection
- Created and validated unit tests in **Jest** and **Enzyme**, increasing repository wide code coverage to 96%

QBuild — Sep 2021 – Dec 2021
Application Developer Intern — *Markham, Ontario*
- Created an asynchronous image upload feature, saving the blob in **SQL Server** then exposing it via an Object URL massively improving page loads by 80%

QBuild — Jan 2021 – Apr 2021
Application Developer Intern — *Markham, Ontario*
- Created a responsive image upload feature which processed files into **SQL Server** in under 100ms for a seamless user experience

OTHER EXPERIENCES

WATonomous - Lead Full Stack Developer | *Next.js, Tailwind, Vercel* — Jan 2023 – Present
- **Founding** lead developer of WATonomous' new website initiative using **Next.js** and deployed on **Vercel**
- Managed a team of 5 developers, maintaining a high standard of code quality and prioritizing effective feedback