# Lucas Choi

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## Work Experience

**Software Engineer Co-op, AMD** — **Markham, ON**
May 2022 - Aug 2023

- Improved display certification efficiency by 25% year over year by contributing to the validation of 200+ models with a market impact of over 10 million units.
- Assessed the feasibility, cost, risks, and ROI of new features by designing and implementing testing tools in C++.
- Streamlined driver updates for improved display model recognition by automating data extraction from XML testing logs using Python.
- Ensured proper AMD FreeSync™ branding and GPU compatibility by overseeing an SQL database of 1,000+ display models.
- Improved testing reliability of automated validation systems by developing and implementing new test criteria.
- Worked closely with large display manufacturing partners, including LG, Samsung, and Dell, to improve display performance and verify product compatibility.

**Software Engineering Intern, Versapay** — **Remote/Toronto, ON**
May 2021 - Dec 2021

- Enabled accurate and automated data population by designing custom invoice and credit memo templates using HTML5, CSS3, and JavaScript.
- Improved customer satisfaction by working closely with clients to understand their needs and refining designs to align with functional and design requirements.
- Ensured seamless insertion of client data by implementing dynamic content integration using Shopify Liquid.

## Projects

**Slesh** — Nov 2023 - Present

- Co-founded a startup which enables users to navigate websites using LLMs, reaching a peak of 200 active users.
- Delivered a seamless user experience by designing a Chrome extension interface using React and TypeScript.
- Mitigated risks of untested features by developing a dedicated development server, streamlining feature testing and improving deployment reliability.

**Readease** — Sept 2023 - April 2024

- Built a mobile application to assist dyslexic individuals with reading comprehension through audio and visual aids.
- Enhanced reading assistance by integrating Google Cloud services for text-to-speech, along with GPT and DALL·E APIs for AI-powered content generation.
- Created an intuitive user experience by designing and implementing the user interface using React.js.
- Enabled text extraction from uploaded documents by developing backend functionality with Node.js.

**Distributed and Replicated Storage System** — Jan 2024 - Mar 2024

- Ensured efficient storage of key-value pairs by developing a distributed and replicated storage system in Java.
- Improved system reliability and fault tolerance by designing an external configuration service for multiple servers.
- Optimized performance and reduced retrieval latency by implementing an LRU caching strategy.

## Education

**Bachelor of Applied Science, University of Toronto** — Sept 2019 - June 2024

- Computer Engineering