

# Noah Nefsky

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## Skills

- **Languages:** Python, Typescript, C++, Java
  - **Frontend/Mobile:** React, Three.js, Next.js, Redux, Jotai, React Native
  - **Backend/Other:** Node.js, PyTorch, NumPy, AWS, SQL, Spark, Spring Boot, NeRFStudio
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## Work Experience

**Software Engineer Intern** | Squint AI, San Francisco June 2024 – December 2024

- Conceptualized and built a product using **Three.js** and **Neural Networks** to transform images/videos of machines or factory spaces into interactive 3D scenes, enabling remote training for factory operators
- Built a **React** procedure management system enabling users to create customized procedures, branch existing procedures into drafts, and track performance - improving operational efficiency and minimizing downtime
- Architected and developed role-based access controls using **React/Node/SQL**, where admins can restrict factory procedures and documents to user groups, enhancing operational modularity and minimizing security risks

**Software Engineer** | PointClickCare, Toronto September 2023 – January 2024

- Integrated with GPT-3.5 to develop an **AI** warning system for patient health records highlighting alarming data to the practitioner, suggesting next steps (additional tests, people to contact, etc.), improving care and responsiveness
- Implemented health record messaging in **Flutter**, enabling nurses and doctors to seamlessly share patient updates
- Built a drug disposal workflow into an **Android** nursing application preventing misuse and loss of medication

**Junior Software Developer** | GrantMatch, Toronto May 2023 - August 2023

- Implemented grant filing request and approval notifications using **Django** and **Vue.js**, improving user responsiveness
- Used **LangChain** and **NLP** to auto-complete grant application forms, reducing filing from hours to minutes
- Built a dashboard in **Django** and **Vue.js**, enabling sales and customer success teams to make data-driven decisions

**Software Engineer Intern** | Thoughtwire, Toronto May 2022 - August 2022

- Created a **TypeScript** VSCode extension to streamline RDF code navigation and automate project uploads for testing on a virtual machine, saving developers 90% of the time compared to manual methods
- Fixed bugs for a **Java backend** data collection application that serves IoT device data to a digital twin

**Junior Software Engineer** | Sparcblock, Toronto May 2021 - August 2021

- Built a **.NET** and **Spring Boot** application to automate accounting updates, enabling the closure of a client deal
  - Developed **Java RESTful APIs** to integrate with accounting solutions and automate vendor payments using **Spring Boot**, enabling compatibility with 4 new accounting services
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## Education

University of Waterloo, Ontario September 2020 - April 2025

- Honours Bachelor of Computer Science (co-op) with Economics Minor
- **Courses (mainly C++):** Algorithms, Data Structures, Application Development, Operating Systems, Compilers, Object-Oriented Programming, User Interfaces, Bioinformatics (**PyTorch**), Functional Programming, Statistics

Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland February 2024 - June 2024

- **Master's Level Courses:** Computer Vision (**NumPy** and **PyTorch**), Data Visualization (**D3**), Economics
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## Projects

Patient Diagnosis (**PyTorch**, **Python**, **Spark**, **NLP**)

- Built a pipeline using **AI** to transform hundreds of thousands of clinical notes into structured data
- Utilized **machine learning** and **semantic search** to predict a patient's diagnosis and suggest tests to run

Preesh Rewards (**React native**, **Firebase**, **Redux**)

- Built a mobile application to reward users for tipping allowing them to track and utilize points earned
- Included authentication, redeeming points for gifts, tracking history, saving deals, categorized searching, etc

SEC Filings AI Search (**Python**, **Spark**, **NLP**)

- Built an application to process and **semantically search** millions of SEC filings to extract time series financial data