

Nicholas DeGroot


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ABSTRACT

An experienced software engineer with a passion for the craft. I thrive at the edge of technology and find joy in tackling the world's toughest problems. Currently seeking high-impact positions in early-stage startups with innovative ideas.

EXPERIENCE

- **Digs**  Oct 2022 - Current
Senior Software Engineer Vancouver, WA | May 2023 - Current
 - Launched [Dollhouse](#), enabling 3D visualizations of 2D blueprints in the browser
 - Launched [AskDigs](#), enabling chat-based questions against construction documents
 - Wrote a custom react renderer for interacting with the fabric HTML5 canvas library

Computer Vision Consultant Remote | Oct 2022 - May 2023

 - Designed and trained custom PyTorch CV models for blueprint structure segmentation
 - Fine-tuned existing multi-modal models for accurate room name prediction
 - Developed an automated infrastructure-as-code based CI pipeline to deploy through multiple cloud providers
- **Stream**  Jan 2019 - Sep 2022
L3 Software Engineer Remote | Apr 2022 - Sep 2022
 - Migrated internal analytics storage to Snowflake using a custom ETL pipeline
 - Deployed Looker analytics with custom data models for business reporting and enterprise exports

L2 Software Engineer Remote | Jun 2021 - Apr 2022

 - Developed AR-backed video calls, allowing users to take measurements remotely
 - Designed web-based algorithms for common CV tasks such as edge detection



Software Engineer Consultant Remote | Oct 2019 - Jun 2021

 - Developed an embeddable version of a React app for use in external CRMs
 - Created permission-backed endpoints for a Kotlin server



Software Engineer Intern Portland, OR | Jan 2019 - Sep 2019

 - Developed internal tools for common administrative tasks, such as adding and editing users

EDUCATION

- **University of California, San Diego**  GPA: 3.983
B.S. Data Science GPA: 3.980
B.S. Cognitive Science (spec. Neural Computation / Machine Learning) GPA: 4.000
 - Summa Cum Laude
- **Lake Oswego High School**  U/W GPA: 3.88
High School Diploma W GPA: 4.12
 - National Merit Finalist

PROJECTS

- **Personalized Recipe Recommendation Using Heterogeneous Graphs** March 2023
Tools: PyTorch, Graph DBs, Figma 
- **Course Arrival** February 2021
Tools: React, PostgreSQL, Go, Pandas 
 - Winner of SD Hacks 2021 Wolfram Alpha & Best Use of CockroachDB prizes

PATENTS

- [P.1] Pavan K. Kamaraju, Nicholas DeGroot (2024). **CONTEXT AWARE MEASUREMENT**. Patent Office, Patent No. 12,154,289. Registration Date: 11/05/2021, Grant Date: 11/26/2024, Publication Date: 05/11/2023.
- [P.2] Sean M. Adkinson, Nicholas DeGroot, et al. (2023). **REMOTE MEASUREMENTS FROM A LIVE VIDEO STREAM**. Patent Office, Patent No. 11,830,213. Registration Date: 11/05/2020, Grant Date: 11/28/2023, Publication Date: 11/28/2023.