

# RYU PARISH

Software Engineer

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## EDUCATION

**Bachelor of Computer Science**, University of Washington

2021 - 2024

*I was the only transfer student accepted into Computer Science from Texas in 2021*

## PUBLICATIONS

**INSCIT**: Information-Seeking Conversations with Mixed-Initiative Interactions

Zequi Wu, **Ryu Parish**, Hao Cheng, Sewon Min, Prithviraj Ammanabrolu, Mari Ostendorf, Hannaneh Hajishirzi

*Transactions of the ACL, 2023 (ACL Presentation)*

## EXPERIENCE

**Google**

March 2025 - Present

Software Engineer II (L3)

Kirkland, WA

- Developing ultra-low latency financial technology systems in Golang with performance-critical concurrent processing.
- Optimizing C++ database operations and building confidential ML-integrated backend APIs for high-performance operations.
- Contributing to AI infrastructure through careful memory management and smart pointer usage in C++ for ML workloads.

**Amazon Web Services (AWS)**

June 2022 - Sept 2024

Software Development Engineer Intern (3 internships)

Seattle, WA

- Built end-to-end products integrated with Lightsail's microservices, cutting resource request processing from hours to 15 minutes.
- Developed serverless applications with Lambda/DynamoDB and automated security deployment systems with React/Java/Golang.
- Conducted UX research and orchestrated delivery across control/management planes to resolve core VPS email issues.

**University of Washington Research Labs**

Nov 2021 - Dec 2023

ML Research Engineer (H2Lab & PLSE Lab)

Seattle, WA

- Published ACL 2023 paper; developed \$20,000 crowdsourcing system for dialogue annotation collection.
- Led ML4Code project applying LLMs to mutation testing; trained transformer models on HYAK supercomputer.

**Cledge**

Aug 2021 - Feb 2022

Founding ML/NLP Engineer

Seattle, WA

- First ML engineer at seed startup (now profitable); received OpenAI GPT-3 beta access with direct advising.
- Led 4-engineer team with \$25,000 Azure credits; sponsored by Microsoft for Startups.

**Google CSRMP**

Sep 2021 - Dec 2021

Research Mentee

Mountain View, CA

- Selected nationally; mentored by Google Researcher alongside MIT/Harvard students on machine perception.

## SKILLS

**Languages**

C/C++, Golang, Python, Java, JavaScript, SQL, Bash

**Frameworks**

PyTorch, Hugging Face, React, AWS Lambda/DynamoDB, TensorFlow

**Tools**

SLURM, Git, Vim, AWS, HYAK Supercomputer