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## EDUCATION

<b>University of California, Santa Cruz</b> B.S. in Computer Engineering, Baskin School of Engineering	<b>Santa Cruz, CA</b> Jun 2024
<b>Tohoku University</b> M.S. in Applied Information Sciences, Graduate School of Information Sciences Sakaguchi & Inui Laboratory - Tohoku NLP Group	<b>Miyagi, Japan</b> Expected Mar 2027

## EXPERIENCE

<b>Tohoku University</b> Teaching Assistant - Practical Machine Learning II <ul style="list-style-type: none"><li>Co-manage a course of 120 undergraduate students as part of a TA team</li><li>Responsibilities included creating/updating assignments, providing real-time technical support during lectures, and grading coursework</li></ul>	<b>Miyagi, Japan</b> Oct, 2025 - Present
<b>Preferred Networks, Inc.</b> RD26 - Software Engineering Internship (TS, Fastify, PostgreSQL, MinIO, Docker) <ul style="list-style-type: none"><li>Developed a complex LLM-based web application in a 7-week group R&amp;D program</li><li>Designed a distributed architecture with gRPC-based planner-worker communication</li><li>Built and maintained backend system using Fastify, Prisma, PostgreSQL, and MinIO for data storage</li></ul>	<b>Tokyo, Japan</b> Aug 2025 - Sep 2025
<b>Partson, Inc.</b> Software Engineering Internship (TS, React, Figma) <ul style="list-style-type: none"><li>Played a key role as a front-end engineer in the development of an e-commerce platform (UZONE)</li><li>Built multiple pages and led efforts to improve code maintainability and readability by refactoring the codebase and optimizing technology stack</li></ul>	<b>Tokyo, Japan</b> Jul 2023 - Dec 2023

## PROJECTS

<b>LLM Interpretability Research</b> Research ( NLP, LLM, Transformer, Attention Sink, Outliers) <ul style="list-style-type: none"><li>Exploring internal behaviors of Transformer models, focusing on attention sink and activation outliers</li></ul>	Apr 2025 - Present
<b>CTR Prediction</b> ML Competition (Python, PyTorch, Pandas, Scikit-Learn, Poetry) <ul style="list-style-type: none"><li>Contributed to a record team score (0.00544 vs. 0.00560) in a 15-team competition on a 15GB ad dataset.</li><li>Implemented an FT-Transformer applying GroupKFold cross-validation and cyclical feature engineering</li><li>Investigated the model's unexpectedly high score by analyzing internal attention scores via PyTorch Hooks</li></ul>	May 2024 - July 2024
<b>GenPlate</b> Web App (TypeScript, React.js, Node.js, Chakra-UI, AWS Lambda) <ul style="list-style-type: none"><li>Developed a web application that generates email, social media post, and message templates with the GPT-3.5 API, allowing users to customize templates in 12 languages and edit them using the built-in editor.</li></ul>	Dec 2022 - Jan 2023

## SKILLS

**Programming Languages:** Python, TypeScript, JavaScript, C, C++, Swift  
**Frameworks:** React.js, AngularJS, Vue.js, Node.js, Flask, SwiftUI  
**ML/AI Tools:** PyTorch, Transformers, LightGBM, Optuna, W&B  
**Infra & DevOps:** Docker, gRPC, PostgreSQL, Prisma, MinIO, AWS, Github Actions  
**Design & Tools:** Figma, Material Design, Storybook