

SO

Satoki Ohashi

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EDUCATION

University of California, Santa Cruz
B.S. in Computer Engineering, Baskin School of Engineering

Santa Cruz, CA
Jun 2024

Tohoku University
M.S. in Applied Information Sciences, Graduate School of Information Sciences
Sakaguchi & Inui Laboratory - Tohoku NLP Group

Miyagi, Japan
Expected Mar 2027

EXPERIENCE

Tohoku University Miyagi, Japan
Teaching Assistant - Practical Machine Learning II Oct, 2025 - Present
• Co-manage a course of 120 undergraduate students as part of a TA team
• Responsibilities included creating/updating assignments, providing real-time technical support during lectures, and grading coursework

Preferred Networks, Inc. Tokyo, Japan
RD26 - Software Engineering Internship (TS, Fastify, PostgreSQL, MinIO, Docker) Aug 2025 - Sep 2025
• Developed a complex LLM-based web application in a 7-week group R&D program
• Designed a distributed architecture with gRPC-based planner-worker communication
• Built and maintained backend system using Fastify, Prisma, PostgreSQL, and MinIO for data storage

Partson, Inc. Tokyo, Japan
Software Engineering Internship (TS, React, Figma) Jul 2023 - Dec 2023
• Played a key role as a front-end engineer in the development of an e-commerce platform (UZONE)
• Built multiple pages and led efforts to improve code maintainability and readability by refactoring the codebase and optimizing technology stack

PROJECTS

LLM Interpretability Research Apr 2025 - Present
Research (NLP, LLM, Transformer, Attention Sink, Outliers)
• Exploring internal behaviors of Transformer models, focusing on attention sink and activation outliers

CTR Prediction May 2024 - July 2024
ML Competition (Python, PyTorch, Pandas, Scikit-Learn, Poetry)
• Contributed to a record team score (0.00544 vs. 0.00560) in a 15-team competition on a 15GB ad dataset.
• Implemented an FT-Transformer applying GroupKFold cross-validation and cyclical feature engineering
• Investigated the model's unexpectedly high score by analyzing internal attention scores via PyTorch Hooks

GenPlate Dec 2022 - Jan 2023
Web App (TypeScript, React.js, Node.js, Chakra-UI, AWS Lambda)
• 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.

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