Hodaka Nakamura

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EDUCATION

University of California, Irvine — Expected June 2028
Bachelor of Science in Computer Science, Minor in Bioinformatics — Irvine, CA
- GPA: 4.00
- Campus-Wide Honors Collegium

Ida B. Wells-Barnett High School — June 2024
High School Diploma — Portland, OR
- GPA: 4.21

WORK EXPERIENCE

STEM Tutor — January 2025 - Present
Ardent Academy — Irvine, CA
- Help K-12 students with STEM subjects, designing personalized curriculums and supporting their learning
- Responsible for multiple subjects, including Python, Java, JavaScript, C, C++, Physics, and Math up to Calculus

Ambassador Engineering Intern — January 2025 - Present
Branch Out — Irvine, CA
- Develop tests for backend system of the Branch Out application, planning to work with Flutter front end as well
- Learning tools including FastAPI, GraphQL, PostgreSQL, PyTest, Poetry, and GitLab

Software Engineering Intern — June 2023 - June 2024
TOPPERS (Toyohashi OPen Platform for Embedded Real-time Systems) Hakoniwa WG — Japan
- Engineering the Hakoniwa virtual environment for simulating real-world systems (e.g. drones)
- Introduced real-time audio streaming to cloud-based microcontroller simulations, working with signal processing
- Worked with C#, Python, and Bash
- Translated Japanese presentations to English for a University of Tokyo professor, contributing to the team's globalization
- Created the drone 3d model for the team's first drone simulation using Blender

Part-time Fullstack Web Developer — June 2021 - August 2022
Portland State University Fariborz Maseeh Department of Mathematics and Statistics — Portland, OR
- Integrated a customized course feature for a website to teach analysis and group theory to college students
- Developed both server-side and client-side code using HTML, JavaScript, CSS, PHP, SQLite, and jQuery

Part-time Math Tutor — June 2023 - May 2024
Mathnasium Learning Center — Portland, OR
- Worked alongside multiple tutors to help K-12 children with math up to calculus, significantly assisting many students with their schoolwork

PROJECTS

Portfolio Website (hodakan.vercel.app) — 2024
- A personal portfolio made with Next.js and hosted with Vercel, creating dynamic UI and animations

DevBot — 2020
- Private Discord bot to moderate, assign roles, and educate in programming
- Used in server with over 50k members
- Mainly written with Node.js and Discord.js

Unpublished Research Paper — 2023
- Wrote an unpublished research paper with a mentor through the Inspirit AI+X 1:1 Research Mentorship program
- Used time series models (RNN, LSTM) to forecast the future number of Sunspots using Kaggle datasets, can help with space forecasting

SKILLS

Technical

Proficient in C++, JavaScript, C#, Python, HTML, CSS, jQuery, p5.js, Node.js, Discord.js, Tensorflow, NumPy, Pandas, Unreal Engine, Unity, Java, React, Next.js, Bootstrap, Tailwind CSS, utilizing Bash, Visual Studio Code, JetBrains IDEs, Github, Git Bash, GitKraken, Jupyter

Fluent in Japanese

AWARDS/EXTRACURRICULAR ACTIVITIES

Campuswide Honors Collegium — September 2024 -
Dean's Honor List
- Fall 2024

High School Chamber Orchestra — August 2020 - June 2024
First Violin Concertmaster
- Ensemble: 2x District Champion, 2022, 2023 2x State qualifier, 2022, 2023
- Solo: 1x District runner-up, 2023, 1x State qualifier, 2023

United PDX 06 Premier — May 2019 - April 2023
Club Soccer
- Played in four different teams, the last being the 2nd-tier Premier team