

Eric Vernon

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Core Skills

- Software Development: Backend, Full Stack Engineering; Testing
- Cloud Engineering: AWS Certified, IAM, CloudFormation, AWS Config, S3
- Programming Languages: Python, Java, PHP
- Languages: English (Native), Japanese (JLPT N2)

Work Experience

Osaka Metropolitan University - Sakai, Osaka, Japan

Graduate Student

- April 2020 - Present
- Graduate student within the computational intelligence laboratory
- Engineered Python-based machine learning pipelines to train classification models on complex datasets, managing the end-to-end workflow from data standardization to documenting technical findings
- Authored and co-authored multiple peer reviewed papers on explainable machine learning and fuzzy classifiers
- Mentored junior students within the laboratory on both software development and computational intelligence research

MUFG Americas - New York, New York

Senior Innovation Engineer

- February 2018 - February 2020
- Responsible for designing, building, and automating the deployment of AWS infrastructure
- Helped MUFG transform from having zero cloud presence to running multiple production applications on AWS
- Trained and provided guidance to teams within the security operation center on managing IAM and network security within AWS

Datto, Inc. - Rochester, New York

Software Development Engineer

- March 2016 - February 2018
- Created a new, OpenWRT-based router with embedded 4G LTE connectivity
- Developed a REST API using PHP and the Symfony framework to support remote management of the router

Amazon.com - Seattle, Washington

Software Development Engineer

- February 2015 - September 2015
- Worked at the Amazon Local and Amazon Restaurants initiatives
- Developed intranet sites to help manage restaurant delivery zones, using Java

Microsoft Corporation - Bellevue, Washington

Software Development Engineer in Test

- July 2013 - February 2015
- Worked as a member of the Bing Data Quality Team
- Developed a service to help diagnose inconsistency in search results, by comparing various debug signals such as ML-model outputs
- Wrote and maintained automated tests to monitor the health of the live-site

Education

Osaka Metropolitan University - Sakai, Osaka, Japan

- April 2022 - Present
- Doctorate student within Graduate School of Informatics, Department of Core Informatics
- Current research focuses on partial interpretability within explainable machine learning

Osaka Prefecture University - Sakai, Osaka, Japan

- Graduated April 2022
- Master of Science: Computer Science and Intelligent Systems

Rose-Hulman Institute of Technology - Terre Haute, Indiana, USA

- Graduated May 2013
- Bachelor of Science: Computer Science

Certifications

- AWS Certified Solutions Architect Associate (2018-2021, 2026-)
- AWS Certified Security - Specialty (2019-2022, Recertification in progress)
- Japanese Language Proficiency Test N2 (2020)