

THOMAS WINEGARDEN

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INDUSTRY EXPERIENCE

Data Scientist II

Microsoft Azure

Feb 2018 – Present Seattle, WA

Server Buffer Inventory Planning via Multi-Echelon Inventory Optimization (MEIO) analysis.

- Lead \$440M in realized capital expenditure reduction for Azure Storage and Compute via buffer modeling on supply chain lead times.
- On-boarded Specialty Storage offerings to monthly buffer planning analysis to achieve 99.9% up-time SLA.
- Developed new models and internal automated analysis tools in R, SQL, and Python.

Capacity Planner Program Manager

Microsoft Cloud Infrastructure / Operations

Sep 2014 - Feb 2018 Seattle, WA

Lead Server Infrastructure Capacity Planning via Scenario Driven Cost Analysis.

- Planned resource specific hardware for new Azure Regions, Availability Zones, and data centers.
- Planned and managed the infrastructure for the Azure Storage portfolio, representing 27% of Azure's CapEx spend.
- Launched and operationalized multiple generations of new servers, product offerings, and engineering enhancements, leading to +30% in YoY CapEx savings for Azure Storage.

Security Research Assistant

UW CSE Security Privacy Lab

Jun 2012 - Jun 2014 Seattle, WA

Computer security testing and web development for Professor Tadayoshi Kohno.

TEACHING EXPERIENCE

Lecturer

University of Washington iSchool

Mar 2020 - Jun 2020 Seattle, WA

Instructed and facilitated 200 students and 8 TAs in the course INFO 201 Technical Foundations. INFO201 focuses on programming skills for data science including git, CLI, R, and ShinyApps.

Teaching Assistant

University of Washington iSchool

Jun 2012 - Jun 2014 Seattle, WA

Lead four, two hour long, quiz sections per week for the Social Networking Tech course for Professor Bob Boiko.

- Developed the gamified learning class website and HTML, CSS, JS, SQL curriculum.

EDUCATION

MSc Data Science

University of Washington

Sep 2018 - Jun 2021 Seattle, WA

Capstone: Fraud Detection on Cloud Usage via Random Convolutional Kernel Transform on Time-Series Data.

BS Informatics Human Computer Interaction

University of Washington

Sep 2010 - Jun 2014 Seattle, WA

SKILLS

Infrastructure Planning
Server Hardware Planning
Machine Learning
Decision Optimization Statistics
Simulation Data Visualization
Data Engineering git SVNs
Databricks Snowflake

TECHNICAL SKILLS

Python ●●●●●●
SQL ●●●●●●
R ●●●●●●
PyTorch ●●●●●●
Scikit-learn ●●●●●●

GENERAL SKILLS

Teamwork ●●●●●●
Organization ●●●●●●
Initiative ●●●●●●
Data Driven Decision Making ●●●●●●
Leadership ●●●●●●