





# Spencer D Schoenberg

spencrr.dev

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 google scholar

## EDUCATION

### University of Wisconsin–Madison

PhD Computer Science

Research Area - Machine Learning, Systems

SEPT 2022 - PRESENT

### University of Wisconsin–Madison

BS Computer Science, Data Science

SEPT 2019 - MAY 2022

GPA 3.7 - 149 Credits

### Stanford University

JUN 2018 - AUG 2018

GPA 3.81 - 11 Credits - Computer Science Intensive

### Cedarburg High School

SEPT 2015 - JUN 2019

GPA 4.17 - 32 Credits

## EXPERIENCE

### Software Engineer Intern – Microsoft

MAY 2023 - AUG 2023

*Created Business Continuity and Disaster Recovery (BCDR) solution using automated point-in-time Backup and Restore for central datastore*

MAY 2022 - AUG 2022

*Developed automated deployment orchestration compute job to update database indexing policies following ring topology and cell-based architecture (CeBA)*

MAY 2021 - AUG 2021

*Developed Azure AD change logging for sync and recovery via Cosmos DB*

*Utilized data partitioning and replication consistency*

*Achieved end-to-end logging in pre-production environment*

### Software Engineer Intern – Johnson Controls

JUNE 2020 - JAN 2021

*Developed Python-based Binary Image Builder Tool*

*Improved Jenkins and Docker CI DevOps System*

*Effectively Collaborated in Agile Scrum Team*

## TEACHING & MENTORSHIPS

### Graduate Teaching Assistant – UW–Madison

SEPT 2022 - PRESENT

*Big Data Systems (CS 544) instructed by Dr. Tyler R. Caraza-Harter*

*Computer Graphics (CS 559) instructed by Professor Michael Gleicher, Professor Eftychios Sifakis*

### Peer Mentor – UW–Madison

JAN 2022 - MAY 2022

*Algorithms (CS 577) instructed by Professor Marc Renault*

## RESEARCH

### Research Collaborator

OCT 2021 - PRESENT

*Professor Aws Albarghouthi, Professor Frederic Sala*

*Label Function Synthesis for Weak Supervision with Generative Models*

*Developed Hyperparameter Search Tool for Regex Synthesizer*

### Competition Organizer

FEB 2023 - SEPT 2023

*AutoML Cup – AutoML Conference 2023*

*Developed and deployed backend training and evaluation compute infrastructure*

## TECHNICAL SKILLS

### Languages

Python, C#, Java, JavaScript/TypeScript, R, C/C++

### Data Analysis & Machine Learning

NumPy, pandas, Matplotlib,

scikit-learn, TensorFlow, PyTorch

## AWARDS & AFFILIATIONS

UW–Madison Dean's List

BSA Eagle Scout

National AP Scholar

National Honor Society Member

Silicon Valley Innovation Academy

Stanford Computer Science Intensive

## EXTRACURRICULARS

### AI@UW – Artificial Intelligence Club

SEPT 2019 - PRESENT

### FIRST Robotics – Team 3197

SEPT 2015 - JUN 2019

*World Championships Qualifiers 2018, 2019*

*Introduced Git SCM and Travis CI Testing*

*Implemented OpenCV Pipeline on Raspberry Pi*

### MIT Zero Robotics – CHS Coding Club

SEPT 2017 - JUN 2019

*ISS Finalists 2018, 2019*

*World Champions 2019*