

Robert Ryan McCune

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Portland Metro Area of Oregon • www.robertryanmccune.com

SUMMARY Seasoned Computer Scientist with both academic and industry experience, passionate about tackling emergent technical challenges.

TECHNICAL C, C++, Python, AI/ML, Linux, Java, SQL, JavaScript, C#/.NET, Tableau

EDUCATION

UNIVERSITY OF WASHINGTON

Graduate Certificate in Machine Learning, Online

DEC 2025

UNIVERSITY OF NOTRE DAME

Doctor and Master of Science in Computer Science, South Bend, IN

MAY 2016

Investigated distributed problem solving through agent-based modeling and vertex-centric graph processing. Authored seven papers and delivered six talks.

- Published a paper in the influential *ACM Computing Surveys* journal
- Awarded the IBM Ph.D. Fellowship

UNIVERSITY OF NOTRE DAME

Bachelor of Science in Computer Science, South Bend, IN

MAY 2009

- Attempted to hack campus vending machines utilizing Wireshark for a Security course

EXPERIENCE

CONSULTANT

VisibiliEDI, Lake Oswego, OR

MAR 2022 – SEP 2022

Implemented a collection of SQL scripts that transitioned health data transformations from third-party software to in-house, saving tens of thousands of dollars a year.

ASSISTANT PROFESSOR

Cal State Polytech Univ of Pomona, Pomona, CA

SEPT 2016 – JUNE 2018

Served as a dually appointed Assistant Professor in the Computer Science Department and the Center for Excellence in Math and Science Teaching (CEMaST) Department. Duties spanned research, service, and teaching. Instructed one course per quarter, including C++.

- Rated in top percentile range for 6 of 13 student eval questions for C++ course.

SIMULATION ENGINEER

Parsons Brinckerhoff, Newark, NJ

NOV 2009 – AUG 2011

Developed simulations of rail systems using the RTC Software program. Rail system simulations model how systems run and are utilized to better understand operations and improve management. Modeled systems span local light rail to inter-state train projects.

- Developed dozens of simulations used by clients at various levels of government.
- Proposed stationing pattern for the San Diego Trolley incorporated into service.

SHOE SALESMAN

FootTraffic, Portland, OR

JAN 2003 – AUG 2006

Salesman at Portland's largest running shoe store, selling running shoes and apparel. Visually analyzed gait to properly advise customers on shoes with appropriate stability and cushioning. Helped hosting events including a local half marathon.