

Robert Ryan McCune

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

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

EXPERIENCE

CONSULTANT **MAR 2022 – SEP 2022**
VisibiliEDI, Lake Oswego, OR

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 **SEPT 2016 – JUNE 2018**
Cal State Polytech Univ of Pomona, Pomona, CA

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. Taught one course per quarter, including C++, Parallel Computing, and Discrete Structures. Applied for grants.

- Rated in top percentile range for 6 of 13 student eval questions for C++ course.
- Designed and instructed grad-level Graph Processing course based on research.

SIMULATION ENGINEER **NOV 2009 – AUG 2011**
Parsons Brinckerhoff, Newark, NJ

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.

WEB DEVELOPMENT INTERN **JUNE 2009 – OCT 2009**
Choicelunch, San Ramon, CA

Implemented a collection of web apps in C# that simplified account management

EDUCATION

UNIVERSITY OF NOTRE DAME **MAY 2016**
Doctor and Master of Science in Computer Science, South Bend, IN

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

UNIVERSITY OF NOTRE DAME **MAY 2009**
Bachelor of Science in Computer Science, South Bend, IN