

Avik Bosshardt – Curriculum Vitae

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Education

Macalester College | St. Paul, MN | Sept. 2017 – May 2021 (Expected)

Bachelor's Degree: Computer Science Major, Psychology Minor, Cognitive Science Concentration

GPA: 3.96 overall / 4.0 in-major

Relevant Coursework (Grade in Parenthesis): Database Management Systems (A), Computer Systems Organization (A), Artificial Intelligence (A), Statistical Machine Learning (A), Data Science (A), Software Design/Development (A), Algorithm Design/Analysis (A), Theory of Computation (A)

Awards/Honors: DeWitt Wallace Distinguished Scholarship

Language and Technology Skills

- **Object Oriented Programming:** Java, Python, TypeScript
- **Mobile Development:** Ionic Framework
- **Web Design/Development:** HTML5, CSS
- **Version Control:** Git, Subversion
- **Math, Statistics, Data Analysis:** R, Mathematica
- **Machine Learning:** Python, TensorFlow, Keras

Work Experience

Research Assistant – Macalester iLab | St. Paul, MN | Sept. 2018 – Present

- Spearheaded the creation of new materials for training incoming employees in the use of lab software
- Coordinate with a team of research assistants to design, program, and run psychological eye-tracking experiments
- Adapt quickly to resolve unexpected issues or equipment failures during experiments

Software Developer Intern – Epic | Madison, WI | June 2020 – Aug. 2020

- Worked on a web development project which would help patients see doctors who are in convenient locations
- Conducted a rapid, highly iterative, user-centered design and development process

Research Assistant – Macalester AI and Robotics Lab | St. Paul, MN | May 2019 – July 2019

- Collaborated with students and faculty to design, train, and integrate a convolutional neural network into a robot navigation system using TensorFlow and OpenCV
- Performed extensive refactoring to greatly streamline training data collection process
- Achieved significant increases in performance and accuracy compared to previous years' work
- Demonstrated self-motivation by working and problem-solving with and without the guidance of faculty advisors