Avik Bosshardt – Curriculum Vitae

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Education

Macalester College | Sept. 2017 – May 2021 (Expected)

Bachelor's Degree: Computer Science Major, Psychology Minor, Cognitive Science Concentration
GPA: 3.95

Relevant Coursework (Grade in Parenthesis): Artificial Intelligence (Currently Enrolled), Software Design/Development (A), Algorithm Design/Analysis (A), Data Science (A), Linear Algebra (A), Multivariable Calculus II (A), Discrete Math (A), Object Oriented Programming (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
- Math, Statistics, Data Analysis: R, Mathematica, LaTeX
- Machine Learning: Python, TensorFlow, Keras

Work Experience

Research Assistant – Macalester iLab | Sept. 2018 – Present

- Work with a team of research assistants to design, program, and run psychological eye-tracking experiments
- Train psychology students in the use of lab equipment
- Adapt quickly to resolve unexpected issues or equipment failures during experiments
- Regularly perform maintenance of lab computers

Research Assistant – Macalester AI and Robotics Lab | May 2019 – July 2019
- Worked 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.

Volunteer Work

Counselor – Camp Invention | June 2015, 2016
- Supervised and supported children to foster a creative environment
- Collaborated closely with other counselors
- Communicated with parents