

# 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): Statistical Machine Learning (Currently Enrolled), Artificial Intelligence (Currently Enrolled), Software Design/Development (A), Algorithm Design/Analysis (A), Object Oriented Programming (A), Theory of Computation (A), Data Science (A), Linear Algebra (A), Multivariable Calculus II (A), Discrete Math (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: GitHub
- Math, Statistics, Data Analysis: R, Mathematica, LaTeX
- Machine Learning: Python, TensorFlow, Keras

## Work Experience

**Research Assistant – Macalester iLab | Sept. 2018 – Present**

- Coordinate 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**

- 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

## Volunteer Work

**Counselor – Camp Invention | June 2015, 2016**

- Supervised and supported children to foster a creative environment
- Collaborated closely with other counselors to ensure smooth operation of camp