Brian Gauch

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Citizenships: US, Canada • Links to all publications available at: http://www.briangauch.com/

EDUCATION

Vanderbilt University   Nashville, TN
Master of Science, Computer Science. GPA: 3.61   May 2019
- Relevant coursework: Machine Learning, Design and Analysis of Algorithms, Graph Algorithms, Advanced AI, Computational Economics, Computer Vision, Human-Computer Interaction

Washington University in St. Louis   St. Louis, MO
Bachelor's degree, Computer Science. GPA: 3.47   May 2014
- Relevant coursework: Parallel and Sequential Algorithms, Artificial Intelligence, Computer Graphics, Decision Under Risk and Time, Object Oriented Software Development

PUBLICATIONS

- **Brian Gauch**, Richard Alan Peters. "Animation Generation with a Low-Dimensional Simplicial Complex" *International Conference on Pattern Recognition and Artificial Intelligence*   2018
- Jiarui Gan, Bo An, Yevgeniy Vorobeychik, and **Brian Gauch**. "Security Games on a Plane" *AAAI Conference on Artificial Intelligence*   2017
- **Brian Gauch**, Gautam Biswas. "Behavior Changes across Time and between Populations in Open-Ended Learning Environments" *International Conference on Intelligent Tutoring Systems*   2016
- John Siler Kinnebrew, **Brian Gauch**, James Segedy, Gautam Biswas. "Behavior Changes across Time and between Populations in Open-Ended Learning Environments" *International Conference on Artificial Intelligence in Education*   2016

EXPERIENCE

Vanderbilt University   Nashville, TN
Teaching Assistant   May 2016 – December 2018
- TAed for the following courses: Machine Learning, Intermediate Software Design, Artificial Intelligence, Discrete Structures, Programming and Problem Solving
- Developed a large (~10k lines) C++ project for my own research involving dimensionality reduction, graph theory, and animation generation

Vanderbilt University   Nashville, TN
Research Assistant   August 2014 – April 2016
- Led the continued development of a large (~50k lines) Java application for educational research
- Coordinated in-class user studies with middle school students, analyzed and published results

SOAPware Inc.   Fayetteville, AR
Software Development Internship   May 2014 – August 2014
- Gained web development experience with a small, agile company

Centene Corporation   St. Louis, MO
IT Internship   May 2013 – August 2013
- Built large/complex queries for business logic using SQL and Java

J.B. Hunt Corporation   Fayetteville, AR
IT Applications Internship   May 2012 – August 2012
- Helped create a visualization of truck routes and locations using Java

Languages, in order of familiarity, descending: Java, C, C++, Python, MATLAB, SQL, Javascript, PHP
Tools/Libraries/Stacks: GIT, WEKA, Scikit-learn, OpenCV, AWS, Armadillo, Eigen, LAMP