

Jacob Nowakowski

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Education

Illinois Wesleyan University, Bloomington, IL
Majors: Mathematics and Computer Science

Bachelor of Science, May 2017
GPA: 3.93/4.0

Employment Experience

State Farm, Bloomington, IL
Finance Intern

May – August 2016

- Designed and coded SharePoint interface to automate financial reports from a network of national satellite agencies. Successfully balanced intuitive user interfaces with algorithm efficiency.
- Analyzed data to identify reasons for a decline in policy volume in the Texas region during a period of significant weather events. Presented findings and made recommendations for reinsurance strategy to senior management.

IWU Mathematics/Computer Science Department, Bloomington, IL
Teaching Assistant Administrator/Teaching Assistant

August 2014–Present

- Supervised and trained student teaching assistant workers. Collected and organized the work schedules of student workers to distribute to math students.
- Prepared and presented lectures in the following areas: calculus, differential equations, logic and programming.

IWU Mathematics Department, Bloomington, IL
Learning Module Developer

May – December 2015

- Developed, within a group, a series of learning modules, including example problems, to prepare students for college level calculus curriculum. Used Mathematica as the software platform for the training courses.
- Led the team in prioritizing and assigning sections to be developed amongst the group. Ensured consistency of output between the modules. Presented weekly progress reports to faculty. Key to success was the creation of online collaboration library.

IWU Mathematics Department, Bloomington, IL
Researcher and Programmer

June 2015

- Contributed to professor's Cryptography research project that focused on Number Primality Testing. Programmed in C++ an algorithm to operationalize the theory and output the data graphically.
- Met with faculty member daily to establish goals of research, update on progress, and to present final program and conclusions drawn from data.

Leadership Experience

Pi Mu Epsilon (Math Honor Society), IWU Chapter, Bloomington, IL
President

April 2016 – Present

- Engaged with IWU Math and Computer Science community through social events and public puzzles. Outreached to high school math students with math contests and awards to stimulate interest in field.

Phi Mu Alpha (Music Fraternity), IWU Chapter, Bloomington, IL
President of the Philanthropy Committee and Fraternity Education Officer

August 2015 – April 2016

- Lead and organized events to benefit Bloomington community.
- Onboarded new members about fraternity history and values.

Skills

C++, Python, Java, VBA, LaTeX, Mathematica, MySQL, Assembly, Algorithm analysis, Software & application development, Code documentation, Database design, Planning and communication, technical writing, problem solving, teaching, audio/visual editing, Rubik's Cube

Honors and Activities

Dean's List (all semesters), IWU Merit Scholarship, Phi Beta Kappa, TA-of-the-Year Award 2015–2016
Symphonic Winds Ensemble (Percussion Section Leader), Sigma Pi

Other

YouTube Series on Philosophy of Mathematics: https://www.youtube.com/watch?v=hfbSV0g_wyI

