David Joy

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Education

Auburn University August 2019 – May 2023
- Bachelor of Software Engineering, Minors in Physics and Mathematics
- **GPA: 4.0** | Dean's List: Fall 2019, Spring 2020, Fall 2020, Fall 2021

Experience

UDA Technologies Spring 2021 – Present
Software Engineering Co-op *Auburn, AL*
- Worked 3 semesters as Full Stack web developer using Javascript, VB.NET, and SQL
- Maintained and added features to flagship product with 850,000 users
- Helped company reach the best sales year ever

Tennessee Tutoring Corps Summer 2020
Tutor *Oak Ridge, TN*
- Tutored elementary and middle school students in math and English

AuburnHacks 2020 Hackathon February 2020
Best Overall Hack
- Worked on team of 4 to create full website over 24 hours
- Created website for users to compete against friends in stock trading
- Implemented the python (Flask) backend with MongoDB
- Judged best overall out of hundreds of participants

Oak Ridge National Laboratory July 2017 – May 2019
High School Research Thesis *Oak Ridge, TN*
- Created a linear algebra algorithm to speed up biokinetic calculations
- Wrote research paper, gave oral and poster presentations
- Won place at the 2019 ISEF (International Science and Engineering Fair)

Technical Skills

Languages: Python, Javascript + HTML/CSS, SQL, VB.NET, Java, C, Maple
Frameworks/Libraries: Flask, jQuery, Selenium
Developer Tools: Git, Google Cloud Platform, Visual Studio

Involvement

ACM Competitive Programming Team Fall 2019 – Present
- Solve data-processing problems under time and memory constraints
- Compete against other colleges in International Collegiate Programming Competition

ACM Artificial Intelligence Club & Makerspace Fall 2019 – Present
- President since Spring 2021; guided club to rebound after COVID
- Led weekly meetings and extracurricular projects

Eagle Scout 2019

Relevent Courses

Computer Science: Data Structures and Algorithms | Assembly Programming | Operating Systems
Networks | Architecture | Evolutionary Computing (graduate level)
Physics: Modern Physics | Engineering Mechanics | Quantum Physics
Mathematics: Calculus | Linear Algebra | Differential Equations | Statistics | Cryptography