Alexander James Roberts

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Objective

Inquisitive person who excels at mathematics and problem solving, values the sharing of knowledge and the joy of learning, seeking entry-level position that leverages my interest in software engineering, data analysis, and quality assurance.

Education

Auburn University – Auburn, AL (August 2019 – December 2021)
Master of Science (M.S.) in Data Science and Engineering (Data Engineering Option) – Cumulative GPA: 3.5/4.0

Jacksonville State University – Jacksonville, AL (August 2016 – May 2019)
Bachelor of Science (B.S.) Magna cum laude in Computer Science – Cumulative GPA: 3.8 /4.0

University of Alabama Early College – Tuscaloosa, AL (Jan 2014 – Dec 2015)
Earned 36 credit hours of undergraduate study – Cumulative GPA: 3.79/4.0

Darlington School – Rome, GA – Graduated with Honors (May 2016)

Relevant College Coursework

JSU: Management of Information Security and Forensics – Discrete Computational Structures – Spreadsheet Modeling – Technical Writing for Computer Science – Computer Organization and Architecture – Database Systems – Computer Networking – Disaster Response & Recovery

Auburn: Data Mining – Design and Analysis of Computer Networks – Software Quality Assurance – Wireless and Mobile Networks – Machine Learning – Software Process – Probability and Statistics for Data Science – Database Systems – Statistical Learning – Prob/Stat for Data Sci.

Leadership Activities and Interests

Treasurer, B Team Overwatch Tournament Coach, and Team Player – Cocky Esports, now VYGR (Fall 2016 – Current)
Member – Institute of Electrical and Electronics Engineers (IEEE), American Mathematical Society (AMS), Mathematical Association of America (MAA)
Varsity Captain, Class AA Division Champion – Darlington School Math Team (2014-2016)
Lead Programmer – Darlington School Robotics Team (2015-2016)

Achievements

President's List – Jacksonville State University – Jacksonville, AL (Spring 2018, Fall 2018, Spring 2019)
Kappa Mu Epsilon – Jacksonville State University – Jacksonville, AL (Fall 2017)
Honors Program, Dean's List – Jacksonville State University – Jacksonville, AL (2016)
Dean's List – University of Alabama – Tuscaloosa, AL (Summer 2015 & Fall 2015)
National Honor Society, **AP Scholar with Distinction** – Darlington School – Rome, GA (2016)

Skills

Highly Proficient in Office 365: Word – PowerPoint – Excel – Access – Teams
Foreign Languages: Spanish (writing, reading, and speaking), Mandarin (writing pinyin, reading, and basic speaking)
Programming Languages: Java – Advanced, Python – Intermediate, C++ – Intermediate, R – Intermediate, SQL – Intermediate, C – Intermediate, COBOL – Intermediate, Perl – Novice
Data Science Tools: RStudio – Intermediate, Anaconda – Novice, MySQL – Novice
Project Management: Agile, Scrum

Work Experience

Data Mining Analyst – Your Business Solutions (YBS) – Remote (July 2018)
Working as a freelancer, provided client data extracted from external online sources. Created a JavaScript automating the data mining process, enabling the client to analyze the data more quickly and efficiently.

Learning Center Peer Tutor – Darlington School – Rome, GA (2014-2016)
Tutored peer students during school hours on math and science.

Project Experience

Graduate Capstone Project (2021) – Developed a generative adversarial network for email spam classification. Involved dataset analysis and preprocessing with some Java libraries, then utilizing PyTorch and TensorFlow for creating the modules of the adversarial network.