Alexander James Roberts

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Objective

Inquisitive student who excels at mathematics and problem solving, values the sharing of knowledge and the joy of learning, seeking to network with industry leaders and to learn about what makes Hoover a great place to live, work and play.

Education

Auburn University – Auburn, AL (August 2019 – present)
Master of Science (M.S.) in Data Science and Engineering (Data Engineering Option) – Cumulative GPA: 3.67/4.0

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

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

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

Autonomous Control System Design – Darlington School (2015-2016)
Lead programmer who designed the autonomous control system for Darlington School's FTC competition robot. Java and Android applications were used to control the robot over Wi-Fi and process sensor input to determine its following actions autonomously, as well as process driver input during user control phases.

Spacecraft Mission Design – Duke TIP – Georgia Institute of Technology (2014)
Project data calculations manager who used MS Excel for the creation of a testing system to determine to the optimal flight course for a hypothetical spacecraft mission to deorbit space debris at predetermined orbital parameters.