

Alexander Roy

alexander.roy96@gmail.com
linkedin.com/in/avgroy
github.com/avgroy

Current Location:
Seattle, WA

Education

University of Mississippi
School of Engineering
B.S. Computer Science
Cum Laude
GPA: 3.73 CS GPA: 3.98
August 2015 – May 2019

Georgia Tech
Master's in Computer Science
January 2020 - Present

Courses

Digital Image Processing, Data Science, Data Structures and Algorithms, Database Systems, Linear Algebra, Operating Systems, Robotics Programming

Skills and Tools

Java, JavaScript, Python, HTML/CSS, PHP, Django, AWS, SQL, GIT

Activities

University of Mississippi
Department of Outreach
Counselor for engineering and computer science camps

Ole Miss Big Event
Worked as a Project Leader for the largest day of service in Mississippi

Projects

Links to my projects can be found on my portfolio website
www.alexanderroy.me

Work Experience

Amazon

SDE II · Advertising Engineering and Development
October 2020 – Present

- Implemented changes to my team's rendering data store allowing us to increase our overall supported product data from under 2M to 30M+.
- Currently working on architecting a new ad rendering solution to support over 50M products for ad serving both on and off amazon.com with WW TPS of 100K+.

Amazon

SDE · Advertising Engineering and Development
July 2019 – October 2020

- Started on a team of two on a project reducing p99 latency for customers by 13000% on an API seeing 1M+ requests per day
- During a service transition to my team for ad rendering APIs I made improvements resulting in an increase of \$2.6M revenue annually.
- Worked to enabling additional ad rendering for amazon smile allowing for increase of monetization by \$5M annually.
- Implemented APIs allowing for advertising API integrators to support new bidding options on campaigns.
- Automated repetitive team processes decreasing overall time spent on repetitive tasks by 50%.
- Mentored three new team hires as well as a Summer intern helping them to understand Amazon practices and tools.

Amazon

SDE Intern · Advertising Engineering and Development
May 2018 – August 2018

- Designed and implemented a serverless solution for asset management from the ground up using native AWS technologies.

University of Mississippi

Research Assistant · HEROES Laboratory
October 2017 – May 2018

University of Mississippi

Teaching Assistant · Computer Science Department
January 2018 – May 2018