

Ryan Johnston

(203) 505-8223
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ryanpjohnston.com

Junior in Computer Science Engineering with experience seeking a summer internship in computer science.

EDUCATION

University of Michigan

Computer Science Engineering B.S.E | Expected May 2020

- **Current GPA:** 3.4
- **Relevant Coursework:** Data Structures and Algorithms (EECS 281), Theory of Computation (EECS 376) Intro to Computer Security (EECS 388), Programming and Data Structures (EECS 280),
- **UM::Autonomy Wilson Center Project Team:** Business sub team member; designed and implemented new team website with goals of maintainability and intuitive layout (umautonomy.com)
- New activity

EXPERIENCE

Research Assistant

Lunds Tekniska Högskola (Sweden) | May 2018 - June 2018

Completed research in blockchain technology (Ethereum) as part of a competitive study-abroad program.

- Designed decentralized applications using Ethereum smart-contracts and ReactJS
- Created a Docker-based solution for automatically deploying and managing a private Ethereum network
- Completed a proof-of-concept for an IoT device marketplace decentralized application
- Maintained documentation actively through comments and a wiki

Developer Operations

r4 Technologies | May 2017 - August 2017; May 2016 - August 2016

Used industry-standard tools to implement effective solutions for managing and monitoring server environments.

- Designed and implemented proprietary alert monitoring system
- Automated server setups, configurations, and deployments with Chef and AWS OpsWorks
- Implemented variety of monitoring tools using Python, AWS Lambda, Elasticsearch, and Grafana
- Participated in meetings demonstrating tools and offering input to co-workers
- Assisted in day-to-day environment maintenance and troubleshooting

SKILLS & ABILITIES

- Languages: C++, Python, Java, HTML/CSS/JS, Solidity
- Tools/Frameworks: ReactJS, NodeJS, AWS, Git, Linux
- Other: Collaboration, Flexibility, Technical Communication, Problem-solving, Leadership

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EDUCATION

Computer Science Engineering B.S.E.

University of Michigan, Ann Arbor, Michigan

Expected
May 2020

- **Current GPA:** 3.45
- **Relevant Coursework:** Advanced Operating Systems (EECS 482), Distributed Systems (EECS 491), Web Systems (EECS 485), Database Management Systems (EECS 484)

EXPERIENCE

Summer Analyst, Alternative Investments

Bank of New York Mellon, New York, New York

July - August
2019

- Developed a testing automation framework that integrated with various testing scripts
- Used testing best-practices including behavior-driven design through Cucumber
- Evaluated feasibility and quality of many testing approaches and frameworks

Instructional Assistant, Computer Science & Engineering

University of Michigan, Ann Arbor, Michigan

Winter, Fall Terms
2019

- Assisted in administering an upper-level Web Systems course (EECS 485) to 400+ students
- Designed and delivered 5 projects, 2 exams, and 13 labs to students
- Taught a weekly lab section and held 3 office hours throughout the week

Research Assistant, Blockchain Research

Lunds Tekniska Högskola, Lund, Sweden

June - July
2018

- Designed decentralized applications using Solidity Ethereum smart-contracts and ReactJS
- Created a Docker-based solution to easily deploy, manage, and scale a private Ethereum network
- Completed a proof-of-concept for a decentralized IoT device marketplace and presented findings

Junior Developer, Developer Operations

r4 Technologies, Ridgefield, Connecticut

May - August
2017

- Designed and implemented proprietary incident management system to decrease errors by 40%
- Automated environment setups, configurations, and deployments with Chef and AWS OpsWorks
- Implemented a variety of monitoring tools using AWS Lambda, Elasticsearch, and Grafana
- Assisted in day-to-day AWS/Linux environment maintenance and troubleshooting

Intern, Developer Operations

r4 Technologies, Ridgefield, Connecticut

April - August
2016

- Implemented Continuous Delivery concepts and tools
- Made an internal web application using ReactJS for provisioning development environments
- Scripted maintenance tasks using Python, AWS, and relevant APIs

SKILLS & ABILITIES

- **Languages:** C++, Python, Java, HTML/CSS/JavaScript, Go, Solidity
- **Tools/Frameworks:** ReactJS, NodeJS, AWS, Git, Linux, Docker
- **Other:** Collaboration, Flexibility, Technical Communication, Problem-solving, Leadership, BSA Eagle Scout

PROJECTS

- **UM::Autonomy Project Team:** Business team design lead; designed and implemented team website with goals of maintainability and intuitive layout (umautonomy.com). Designed new sponsorship material to facilitate a 40% increase in income.