

Kyle Coleman

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WORK EXPERIENCE

MasterCard, St. Louis, Missouri, USA

- Software Engineer II Aug 2019 – Feb 2020
 - Development of crucial green-field cryptographic security platforms designed for scalability and high through-put; upwards of 5 million transactions per day
 - Working with business partners to determine their needs and design an effective approach to solve them
 - Communicating effectively with an international team to repurpose existing legacy code into maintainable, scalable, and modern code
 - Actively learn and implement new technologies
- Primary Development Technologies:
 - Java 1.8
 - Spring, Spring-Boot, Spring-Channels, and several other Spring technologies
 - Redis and Cassandra
 - NATS and MQ
 - Pivotal Cloud Foundry

Enterprise Fleet Management - Affiliate of Enterprise Holdings, St. Louis, Missouri, USA

- Software Engineer, Full Stack Jul 2018 – Aug 2019
 - Uses technical knowledge of professional concepts to solve business problems
 - Evaluating elements of technology’s effectiveness through requirements gathering, testing, research and investigation and make recommendations for improvements that result in increased quality and effectiveness
 - Develops detailed software design, develops code with unit tests, refactoring, correcting flaws based on requirements testing, and integrating with existing applications
 - Subject matter expert in EDGE, Enterprise Fleet Management’s main business application, and FLITE, an insurance tracking environment
- Primary Development Technologies:
 - Java 1.7 and 1.8
 - Java Frameworks including Spring-boot and JUnit
 - Javascript and JSP
 - Angular
 - Weblogic
 - XML, HTML, and CSS
 - SQL and Oracle Database Technologies

Saint Louis University, St. Louis, Missouri, USA

- Undergraduate Research Student, Dept. of Computer Science Aug 2017 – May 2018
 - Investigate and conduct research in various fields of computer science including networking and serverless computing.
 - Published one paper and presented at a conference
 - Work focuses on optimizing load-balancing in a serverless computing system
- Intern Service Desk Analyst, Information Technology Services Jan 2016 – May 2018
 - Provide support for software, hardware, and email to faculty and staff.
 - Communicate with faculty and staff to diagnose and address technical problems.

University of Missouri, Columbia, Missouri, USA

- REU Undergraduate Research Student, Dept. of Computer Science May 2017 – Aug 2017
 - Conduct research with a group of undergraduate researchers
 - Published one paper to a workshop and presented in Oct. 2017
 - Work focused on an edge-network offloading scheme utilizing a novel approach titled ”Hyper-profile based offloading”

EDUCATION

Saint Louis University, St. Louis, Missouri, USA

- BA in Computer Science Aug 2014 – May 2018
 - Cumulative GPA: 3.20 / 4.00

RESEARCH EXPERIENCE AND PROJECTS	<p>Department of Computer Science, Saint Louis University</p> <ul style="list-style-type: none"> ▪ Undergraduate Research and Senior Capstone Project Aug 2017 – May 2018 <ul style="list-style-type: none"> • Project: Development of a Multi-User Virtual Reality Environment (MUVRE) for Intuitive Drone Operations • Supervisors: Prof. David Ferry and Dr. Srikanth Gururajan • Focus: Integrated systems, networked systems, drone control, virtual reality. ▪ Undergraduate Research Aug 2017 – May 2018 <ul style="list-style-type: none"> • Project: Speeding up Children Reunification in Disaster Scenarios via Serverless Computing • Supervisors: Prof. Flavio Esposito • Focus: Serverless computing, networking. ▪ Undergraduate Research Aug 2017 – May 2018 <ul style="list-style-type: none"> • Project: Load balancing in a Serverless Platform • Supervisors: Prof. Flavio Esposito • Focus: Serverless computing, networking, load balancing, optimization. <p>Department of Computer Science, University of Missouri</p> <ul style="list-style-type: none"> ▪ NSF-REU Undergraduate Research May 2017 – Aug 2017 <ul style="list-style-type: none"> • Project: Hyperprofile-based Computation Offloading for Mobile Edge Networks • Supervisors: Prof. Prasad Calyam and Prof. Flavio Esposito • Focus: Networking architecture, Knowledge-defined-networking, cloud, k-Nearest-Neighbors, computation offloading, edge networks
PUBLICATIONS	<ul style="list-style-type: none"> ▪ A. Crutcher, C. Koch, <u>K. Coleman</u>, J. Patman, F. Esposito, and P. Calyam “Hyperprofile-based Computation Offloading for Mobile Edge Networks,” in <i>The Fourth National Workshop for REU Research in Networking and Systems</i>, Orlando, Florida, USA, Oct 2017. ▪ <u>K. Coleman</u>, F. Esposito, R. Charney “Speeding up Children Reunification in Disaster Scenarios via Serverless Computing,” in <i>The Second International Workshop on Serverless Computing (WoSC)</i>, Las Vegas, Nevada, USA, Dec 2017. ▪ <u>K. Coleman</u>, S. Gururajan, D. Ferry “Submitted for Initial Review: Development of a Multi-User Virtual Reality Environment (MUVRE) for Intuitive Drone Operations,” in <i>AIAA AVIATION Forum</i>, Atlanta, Georgia, USA, Jun 2018.
AWARDS & SCHOLARSHIPS	<ul style="list-style-type: none"> ▪ Dean’s List, Spring 2017, Saint Louis University 2017 For attaining a semester GPA of at least 3.70. ▪ National Science Foundation, Research Experience for Undergraduates Grant Recipient, University of Missouri Mar 2017 For academic excellence and an interest in academic research.
PROFESSIONAL AFFILIATIONS & ACTIVITIES	<p>Laclede’s Lan Non-Profit 2015 – 2018 St. Louis, Missouri, USA</p> <ul style="list-style-type: none"> ▪ Developer 2016– 2018 <ul style="list-style-type: none"> • Development of automation tools for Docker. • Development of web-based tools in TypeScript and Angular. ▪ Administrator 2015 – 2018 <ul style="list-style-type: none"> • Overseeing tournament server administration. • Maintaining logs of various tournament/match outcomes.
LANGUAGES	<ul style="list-style-type: none"> ▪ English: Native language. ▪ German: Intermediate (reading); basic (speaking, writing).
SKILLS	Java, Spring, JSP, Javascript, HTML/CSS, Weblogic, XML, Python, SQL, Redis, PCF, Bash, R, Unix-like Systems, Git, Docker, L ^A T _E X
REFERENCES AVAILABLE UPON REQUEST	[CV updated on 2020-02-20]