Kyle Coleman

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EDUCATION	**Saint Louis University**, St. Louis, Missouri, USA

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

WORK EXPERIENCE

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

- Software Engineer, Full Stack — Jul 2018 – Present
  - 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
    - 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"

RESEARCH EXPERIENCE AND PROJECTS

Department of Computer Science, Saint Louis University

- Undergraduate Research and Senior Capstone Project — Aug 2017 – May 2018
  - 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
  - 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
  - Project: Load balancing in a Serverless Platform
  - Supervisors: Prof. Flavio Esposito
  - Focus: Serverless computing, networking, load balancing, optimization.

Department of Computer Science, University of Missouri

- NSF-REU Undergraduate Research — May 2017 – Aug 2017
  - 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	▪ A. Crutcher, C. Koch, <u>K. Coleman</u>, J. Patman, F. Esposito, and P. Calyam "Hyperprofile-based Computation Offloading for Mobile Edge Networks," in *The Fourth National Workshop for REU Research in Networking and Systems*, Orlando, Florida, USA, Oct 2017.
	▪ <u>K. Coleman</u>, F. Esposito, R. Charney "Speeding up Children Reunification in Disaster Scenarios via Serverless Computing," in *The Second International Workshop on Serverless Computing (WoSC)*, 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 *AIAA AVIATION Forum*, Atlanta, Georgia, USA, Jun 2018.

AWARDS & SCHOLARSHIPS

▪ 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

Laclede's Lan Non-Profit   2015 – Present
St. Louis, Missouri, USA

▪ Developer   2016– Present
  • Development of automation tools for Docker.
  • Development of web-based tools in TypeScript and Angular.
▪ Administrator   2015 – Present
  • Overseeing tournament server administration.
  • Maintaining logs of various tournament/match outcomes.

University of Missouri Undergraduate Research in Consumer Networking Technologies REU Site
Columbia, Missouri, USA   May 2017 – Aug 2017

▪ Undergraduate Researcher
  • Research in computer networking technologies including cloud networking, computation offloading, knowledge-defined networking, and edge networks.
  • Resulted in a publication and presentation.

CAMPUS ACTIVITIES

Mathematics and Computer Science Club, Saint Louis University

▪ Member   Aug 2014 – May 2018 –
  • Participant in general club activities.

LANGUAGES

▪ English: Native language.
▪ German: Intermediate (reading); basic (speaking, writing).

SKILLS

Java, JSP, Javascript, HTML/CSS, Weblogic, XML, Python, C, C++, TypeScript, Angular, Bash, R, Unix-like Systems, Network simulation tools (ns-3), Git, Docker, Android Studio, LATEX

REFERENCES

▪ **Dr. Flavio Esposito**, Ph.D., Assistant Professor
  Department of Computer Science
  Saint Louis University
  1 N Grand Blvd, St. Louis, MO 63103, USA
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▪ **David Ferry**, Doctoral Candidate, Instructor
  Department of Computer Science
  Saint Louis University
  1 N Grand Blvd, St. Louis, MO 63103, USA
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▪ **Dr. Srikanth Gururajan**, Ph.D., Assistant Professor
  Parks College of Engineering, Aviation, and Technology
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