

David Domingo

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EDUCATION

Rutgers University – The Graduate School, New Brunswick, NJ

Ph.D. in Computer Science

Sept. 2018 – May. 2023 (expected)

Advisor: Dr. Sudarsun Kannan

Rutgers University – School of Arts and Sciences, New Brunswick, NJ

Bachelors of Science in Computer Science

Sept. 2013 – May. 2017

WORK EXPERIENCE

Rutgers University, New Brunswick, NJ

Teaching Assistantship (Department of Computer Science)

Sept. 2018 – Present.

- Lead recitations as well as develop projects exploring various computer science topics such as Computer Assembly, Operating System Mechanisms, RPCs, Restful Web Services, and distributed computing frameworks such as MapReduce.

iCIMS, Holmdel, NJ

Software Engineer

Jan. 2018 – Aug. 2018

- Test Lead for iCIMS strategic integrations agile team (team of 5)
- Primarily used Java/Spring and Javascript/Node.js to develop and test internal integration services that communicated with iCIMS Recruit software
- Developed initial scalable test plans and approaches to allow for fast continuous integration and deployment
- Researched testing tools for Node.js that allowed for scalable development of automated test cases
- Led frequent discussions to ensure our architectural approach for our services will yield testable/verifiable features
- Aided project progress by expanding outside of test and developed integration service features along side main developers
- Researched and architected approaches to handle user forwarding to create a seamless user interaction with our microservices

IBM, Durham, NC

Software Developer Intern

June. 2015 – Dec. 2015

- Software Developer intern for IBM's Rational Team Concert source code management software which focussed on aiding the agile development of enterprise applications running on IBM's mainframe systems
- Utilized Java and ANT scripting to develop various tools for project data migration for internal SCM integration efforts.
- Carry out regression testing to verify proper functionality of vital software components throughout the agile development lifecycle

TEACHING EXPERIENCE

Rutgers University, New Brunswick, NJ

Topic: Teaching Assistant for the Department of Computer Science

September. 2018 – Present.

CS211: Computer Architecture (Summer '19), CS416: Operating Systems Design (Fall '19, Spring '20),

CS417: Distributed Systems (Fall '18), CS419: Computer Security (Spring '19)

INVITED TALKS AND PRESENTATIONS

Linux Storage and Filesystems Conference (VAULT '20), Santa Clara, CA

Topic: Accelerating Filesystem Checking and Repair with pFSCK

February 2020

AWARDS AND GRANTS

- Travel Grant Recipient: USENIX Conference on File and Storage Technologies (FAST '20)
- Travel Scholarship Recipient: ACM Symposium on Operating Systems Principles (SOSP '19)
- ACM Student Research Competition Travel Award: ACM Symposium on Operating Systems Principles (SOSP '19)

ACADEMIC PROJECTS

Accelerating File System Crash Recovery

Guide: Dr. Sudarsun Kannan, Rutgers University

Jan. 2019 – Present.

- Utilize modern parallel programming and adaptive scheduling techniques to exploit modern storage capabilities and reduce the runtime of modern file system checking and recovery for EXT file systems.

Bitcoin Transaction Latency

Guide: Dr. Richard Martin, Rutgers University

Sept. 2017 – Dec. 2017

- Semester long project exploring the latency of the Bitcoin network by performing statistical analysis on public Bitcoin transaction data.

Distributed Social Networking

Guide: Dr. Naftaly Minsky, Rutgers University

May. 2017 – Aug. 2017

- Independent study exploring Social Network Analysis Theory and Distributed Computing models to determine a feasible distributed social networking model utilizing Moses middleware developed at Rutgers University.

SKILLS & OTHERS

Programming Languages: C/C++, Java, Python, JavaScript, MySQL, Matlab, Shell, Assembly

Markup Languages: HTML, CSS, XML, Markdown, L^AT_EX

Frameworks: Hadoop, MapReduce, Spark, Spring, Node.js, Flask, Nvidia CUDA, OpenCL

Development Tools: Git, Maven, Gradle, Docker, GDB, QEMU, Valgrind, Intel VTune

Software and Applications: Microsoft Office, Adobe Photoshop