

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

RESEARCH EXPERIENCE

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.
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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
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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)
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ACADEMIC PROJECTS

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.
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SKILLS & OTHERS

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

Markup Languages: HTML, CSS, XML, Markdown, \LaTeX

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