

# Zacharia Kornas

zkornas@uw.edu | (206) 777-5086 | [zkornas.info](mailto:zkornas@uw.edu)

## EDUCATION

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**University of Washington**, Seattle, WA

Dean's List, 3.9 GPA

Bachelor of Science, Major: Informatics

*Relevant Courses:* Foundations of Programming I/II, Data Science Foundations, Client-Side Development, Information Assurance and Cybersecurity, Databases and Data Modeling, Data Structures and Algorithms, Networking and Distributed Systems, Data Science I.

## SKILLS

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**Programming Languages:** Java, Python, Javascript, HTML, CSS, and R.

**Technologies:** React, Node.js, SQL, MySQL, Git/GitHub, Postman, Firebase, Linux

**Concepts:** Object-oriented design, Program Runtime Optimization, Software Development Life Cycle

## EXPERIENCE

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**UNIVERSITY OF WASHINGTON, INFORMATION SCHOOL**

Teaching Assistant INFO 310 - Information Assurance and Cybersecurity

**Sep. 2023 – Present**

- Teaching assistant for the Introduction to Cybersecurity course within the UW iSchool.

**UNIVERSITY OF WASHINGTON, ACADEMIC TECHNOLOGIES**

Systems Consultant

**Jan. 2022 – Present**

- Develop and maintain macOS and Windows-based disk images and application packages for quarterly deployment.
- Assess and ensure adequate security protocols are followed for over 300 machines across multiple campus buildings
- Monitor and respond to ongoing security risks throughout the lab.

**YMCA OF GREATER SEATTLE**

Membership Services Lead

**Aug. 2022 - Jun. 2023**

- Supervise frontline staff and provide leadership for high quality customer service.

Membership Engagement Representative

**Sep. 2019 - Aug. 2022**

- Provided quality customer service to members, guests, and program participants while adhering to YMCA policies and procedures. Maintained safety and security as a top priority.

## RESEARCH PROJECTS

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**UNIVERSITY OF WASHINGTON**

Tor Research (SimulaTor)

**Feb. 2023 - Present**

- Designing and conducting an experimental study to explore bandwidth inflation to alter traffic of the Tor network through malicious relays.
- Deployed 13 Raspberry Pis configured as various types of nodes to simulate a micro-Tor network.
- Developing “SimulaTor”; a framework for constructing a simulated Tor network using physical nodes to help support efforts of replicability in security research.

## PERSONAL PROJECTS

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**UNIVERSITY OF WASHINGTON, ACADEMIC TECHNOLOGIES**

Multiplayer Tic-Tac-Toe - [github.com/zkornas/TicTacToeRFC](https://github.com/zkornas/TicTacToeRFC)

**May 2023 - Jun. 2023**

- Developed a multiplayer Tic-Tac-Toe game in Java, adhering to the Tic-Tac-Toe protocol RFC to enable users across diverse platforms to connect to a central server and engage in seamless, real-time gameplay.
- Designed a robust client-server architecture to manage player communication and synchronize sessions.
- Ensured sophisticated error handling and input validation mechanisms to maintain uninterrupted interactions between clients and the server.

**UNIVERSITY OF WASHINGTON, ACADEMIC TECHNOLOGIES**

Dub Dumps - [github.com/info340b-sp22/Dub-Dumps](https://github.com/info340b-sp22/Dub-Dumps)

**Apr. 2022- Jun. 2022**

- Created a react-based website for students to easily find and rate campus bathrooms using school email authentication. Implemented sorting by proximity, accessibility, and ratings for user-friendly experience
- Utilized firebase for secure user data management and hosting.
- Developed for the full stack by constructing an intuitive U.I. as well as optimized data logic for structured queries.