

# Dylan Kaing

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## EDUCATION

### University of Pittsburgh - School of Computing and Information

#### Pittsburgh, PA

Bachelor of Science in Computer Science and Minor in Information Science (Cyber Security)

August 2022 - December 2025

GPA: 3.6

## TECHNICAL SKILLS

### Programming Languages

- Java, C, CSS, HTML, R, Assembly(MIPS), JavaScript, Python, Rust, SQL, TypeScript

### SQA Tools

- Selenium, JUnit QuickTest, Cucumber, Google Address Sanitizer, Google Thread Sanitizer, SpotBugs, StyleChecker, Java Path Finder, Visual VM, SwaggerUI, Postman

### Build and Project Management + Development Platforms/Environments

- Node.js, Maven, SpringBoot, Angular

### Web Development Frameworks and Libraries

- Flask, Jinja

### Cloud Services

- Amazon Web Services (AWS)

### Operating Systems

- Familiar in Windows 10, Windows 11, Linux

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## RELEVANT COURSEWORK

### Courses Taken

- Discrete Structures, Algorithms & Data Structures 1 & 2, Computer Organization & Assembly Language, Intro to System Software, Formal Methods in Computer Science, Intro to Operating Systems, Intro to Information Security, Introduction to Computer Graphics, Applied Cryptography and Network Security, Introduction to Data Science, Database Management Systems, Intro to Cloud Computing

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## PROGRAMMING PROJECTS

### Cyberspace

- Project to make a secure encrypted application, without the help of https and understanding security concepts.
- Prevents rogue resource servers, user authentication, password hashing, message verification, etc.
- Implements a resource server, authentication server and a bridge server to communicate between a client using the Cyberspace website, a chat board with various access levels.
- Secure channels and encryption are established with ECDH, 2048 RSA keys and AES-GCM.
- Persistent storage on resource and authentication servers using SQLite.
- Implemented by using React, Node, SQLite, Springboot(Java), JavaScript and BCrypt.
- Java, JavaScript, HTML, CSS

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## EXPERIENCES

### CGI Web Application

Fall 2025

- Partnered with CGI Partners to design and develop a web application for corporate operations
- Built on SpringBoot(Java), Maven, Angular, Node, NPM and SwaggerUI
- Java, TypeScript, HTML and CSS
- Drove Agile implementation by leading biweekly standups, sprint planning, and retrospectives

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## EXTRACURRICULAR ACTIVITIES

### Computer Science Class - Spring-Ford Area High School

Teaching Assistant

Royersford, PA

October 2021 - May 2022

- Worked with students individually and in small groups to support them on projects to increase scores by 5-10%.
- Led review sessions with 20-25 students in attendance to review materials on Java and lingering questions.