





Justin Day

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EDUCATION

BS in Computer Science

May 2023

Queens College CUNY

RELEVANT COURSEWORK

OOP, Data Structures, Algorithms, Database Systems, Data Mining, Cryptography, Internet and Web Technologies, Data Communication, Software Engineering

SKILLS

Certifications: Google Cybersecurity, CompTIA Security+ (in progress)

Languages: C/C++, Java, Python, JavaScript, PHP, SQL

Frameworks: React, Node.js, Express.js, Flask, Django

Tools: Git, Unix CLI, VS Code, JetBrains, Eclipse, Splunk, Google Chronicle, Wireshark

PROJECTS

Personal Website | *JavaScript, Node.js, React, Python, Django*

dayjustin.pythonanywhere.com

- Full-stack personal website using React to create static pages and Django rest framework for server and API calls. Styling was done using Material-UI and static files were packaged with Webpack.
- Includes an about page, a web app to split a bill among a group with discount, taxes, and tips using only JavaScript, with a dynamic display of the calculations.
- Also has music rooms where a host plays music and guests have limited control. This is done with using django to create the room database and the page making API calls to both the Django backend and Spotify.

Looking for Group | *JavaScript, Node.js, Express.js*

github.com/Day-Justin/Classwork/tree/main/CS%20348

- Full-stack web application school group project using React and Express to create and group users to chat to one another meet ups.
- Uses the Leaflet applet to create a map and the user browser location to bind a group to a geo-location to help facilitate meet-ups.

RSA Crypto-system | *Java, C*

github.com/Day-Justin/Classwork/tree/main/CS%20352/project

- Group project to attempt to break a RSA crypto-system with modulus of 70 digits. The group mainly used Java because of familiarity
- Used Java to implement a working version of the quadratic sieve to break down the 70 digit modulus to a relations array of possible factors, and then used C package MeatAxe to do the linear algebra to try and find the correct factors
- A challenge was finding the best smoothness bound that would not cause the program to run on too long, but the resulting array was big enough that through MeatAxe, a meaningful result would be returned

EXPERIENCE

See's Candies | *Sales Representative*

Aug 2019 - Apr 2023

Worked with small team to sell gourmet chocolate and candies. Responsibilities include front of store point of sale, merchandising, tracking inventory and restocking orders. One to one interactions with customers lead to greater sales and maximum satisfaction

Modern Chinese School | *Teacher's Assistant*

Sept 2013 - Aug 2018

Volunteer at cultural after school and summer school. Taught martial arts to kids aged 6-13 material teacher wanted to teach. Resulting end of semester performance was always highly regarded