

Diane Tran

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Education

Rutgers University - Spring 2021

GPA: 3.3 | B.S. in Computer Science

Living-Learning Community for Women in CS

Coursework

Data Structures, Algorithms, Computer Architecture, Systems Programming, Databases, Internet Tech, Computer Security, Graduate AI

Skills

Languages: Java, C#, C/C++, React.JS, Python, SQL

Infrastructure: MS Azure, CentOS Linux, Kubernetes

Frameworks: .NET, MVC, Agile

Experience

Microsoft | Software Engineering Intern

(05/19 - 08/19) Returning for (5/20 - 8/20)

- > Addressed accessibility concerns by implementing an OCR (Optical Character Recognition) service that scans product keys for automated product activation
- > Leveraged Azure Functions to store images uploaded to a React web portal in a Blob store and send them to the OCR service for further processing
- > Established CI/CD pipelines and Unit Test framework
- > Integrated into production workflows: product redemption, warranty validation and agent support

Rutgers IT Services | Student Developer

(02/19 - 09/19)

- > Converged web UIs to meet new database standards using Asp.net MVC, MS SQL Server, and HTML/CSS/JS
- > Serviced technical tickets through Asana for Rutgers community and organizations, ~95k students/faculty

UPS | Software Developer Co-Op

(05/18 - 11/18)

- > Implemented critical UPS services such as reschedule delivery, MyChoice registration, and FAQ data isolation
- > Integrated the UPS Chat Bot into Amazon Alexa, Google Assistant, Skype, and FB Messenger to expand support for over 35 million people in 15 countries
- > Expanded the UPS Chat Bot by creating intents, training utterances, and building features using LUIS, Dialog Flow, Alexa SDK, and QnA Maker KB

Teaching

Rutgers CS Dept Learning Center | Manager

(02/19 - Present)

- > Presided over university tutoring lab of 15 student staff
- > Provided tutoring services to 150 students/day in CS fundamentals, data structures, algorithms, systems, etc.

Leadership

Community Director | Rutgers CS Organization

(05/18 - 09/19)

- > Doubled student involvement, and increased female involvement by 57% over a 1-year period
- > Founder & organizer of the RU Tech Involvement Fair, uniting 22+ tech orgs and over 800+ students

Donor Representative | LLC for Women in CS

(01/18 - Present)

- > Organized and chaperoned the 1st and 2nd tech tours to OATH and Facebook in NYC for 60+ women in CS
- > Manage regular communication with program donors

Projects

Mancala > JavaScript

(08/19)

- > Built a two-player strategy game using JS and VS Code

Big Boba Brand > Python

(04/19)

- > Built a machine that makes you bubble tea
- > Used a smart plug API to trigger a Keurig remotely and an Arduino microcontroller to control servos that move 3-D printed gears in a conveyor belt and deposits bubble tea powder and tapioca balls into your cup

Sudoku Solver > C

(10/18)

- > Implemented a brute force algorithm to generate all possible Sudoku plays and solve by order of elimination
- > Implemented a DFS-style backtracking algorithm to generate the correct values to solve the Sudoku puzzle

2048 > Java

(07/18)

- > Implemented the app 2048, using array manipulation to spawn blocks randomly around the user block
- > Combined adjacent identical blocks on user swipe