

# Yuanhuan Deng

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## EDUCATION

### Brandeis University

M.S. in Computer Science (GPA: 3.6/4.0)

Courses: Data Structures, Database Management Systems, Operating Systems, Web Development

Waltham, MA

Aug. 2022 - Dec. 2024

### Sun Yat-sen University

B.S. in Public Management (GPA: 3.9/4.0)

Guangzhou, CN

Sep. 2018 - June 2022

## RESEARCH EXPERIENCE

### Scalable Architecture Lab - College of William & Mary

Remote

Research Assistant, mentored by Prof. Yifan Sun

May 2024 - Present

- Assisted on research projects on developing a flexible, high-performance, user-friendly computer architecture simulator engine to realize GPU performance visualization

### Xu Lab - Carnegie Mellon University

Pittsburgh, PA

Research Assistant, mentored by Dr. Xueying Zhan

Mar 2024 - Present

- Assisted on research projects exploring Napari GUI development on DeepFinder from an integration of feature-based and deep learning approach
- Based on PyQt5, designed a visual and operable user software interface connecting the model

### The Heller School for Social Policy and Management - Brandeis University

Waltham, MA

Research Assistant, mentored by Dr. Eunjung Jee

June 2023 - Aug. 2023

- Developed a project that automates the conversion of handwritten survey results into electronic datasets which can be read by Stata, providing the datasets for 30+ economists and data scientists for research purposes
- Conducted the image-to-data solution from manual paper work to using OpenCV and PyTesseract, reduced the data conversion time by 90%, and achieved 95.8% accuracy rate in 5,831 pieces of data

### Michtom School of Computer Science - Brandeis University

Waltham, MA

Research Assistant

Jan. 2023 - May. 2023

- Led and developed an interactive website independently to introduce a Python library (FairPy)
- Created the interactive front-end display utilizing HTML/CSS and Javascript
- Built a set of RESTful API with Express.js to handle Create, Read, Update, and Delete (CRUD) operations for user management service, using MongoDB as persistent storage
- Created user authorization, user authentication and secured user sessions facilitating JWT token

## INTERNSHIP EXPERIENCE

### Deloitte Consulting

Shenzhen, CN

Product Manager Intern

Nov. 2021 - Mar. 2022

- Compiled product requirement document for a new internal CRM system of a traditional bank
- Diagnosed the business demand of the bank by selecting 300+ requirements with MySQL and Python libraries
- Accomplished 12 trading scenarios optimization, which saved 28.4% weekly manual work time per staff member

## TECHNICAL SKILLS

- Programming Language: Python, Java, JavaScript/TypeScript, SQL, HTML/CSS
- Frameworks: MERN (React.js, Node.js, Express.js, MongoDB), Bootstrap, Flask, Django
- Tools and Databases: AWS EC2, JUnit, PyTest, Postman, Grafana, MySQL, PostgreSQL, Blender