

# Brianna Ta

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## EDUCATION

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### Columbia University

M.S. in Data Science

### University of North Carolina at Chapel Hill

B.S. in Computer Science | GPA: 3.98/4.00

## WORK EXPERIENCE

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### Software Engineer | Cisco

- Automated security report generation using **Python** for Cisco CyberVision
- Developed **JavaScript analytics** dashboard for monitoring facilities across **15 data centers**, including the US Navy and Air Force
- Managed Cisco High 2022 Program with **140+ externs** across **9 sites nationwide**
- Presented on IoT Application Servers at Cisco Live to **20,000+ attendees**

### Software Engineer | TTeK

- Developed educational admin website in **React** for teachers to track student's learning achievements and receive learning reports
- Integrated with a dynamic and functional backend database using **Google Firebase**

### Software Engineer | Kenari Adaptive Learning

- Developed a gamified educational **Angular** website for elementary school students, focusing on grammar, reading comprehension, vocabulary, and spelling
- Elevated **UI/UX design** and efficiency by implementing Angular components and integrating **Google Firebase**

### Backend Developer | Sirch

- Used **Node.js** and **Twilio** to create an alternative browser for meeting domain experts through search queries
- Integrated with a **MongoDB** database, **Bootstrap** front-end widget, and **iOS** app

## PROJECTS

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### Computer Science Experience Labs Website | UNC-Chapel Hill

- Collaborated with a team of 4 and developed a fully functional web application with a dynamic **Angular** front-end, a **Python** RESTful server-side API, a **SQLAlchemy** relational database that stores back-end application data, and an ORM layer to access data in the database
- Used by over **16,000 Computer Science students** at UNC to explore organizations, events, courses, and the CSXL

### Feather | Pearl Hacks

- Built a **React Native** app to capture and share bird photos for training ML models on species' migration patterns
- Used a **SQLite** database to store image and location data and **Cornell's eBird API** for gathering bird data
- Used **Auth0** for user login and authentication and **Redis Cloud** for storing user profile data
- Awarded **Most Creative Use of Redis Cloud**

### KIWI | Pearl Hacks

- Created an automated budget tracker in **React** and **CockroachDB**, which used the **TaggunAPI** for scanning receipts
- Integrated with the **Twilio API** via **JavaScript** to send text notification reminders for budgeting
- Awarded the **Most Creative Use of Twilio**

### Occupancy Tracking Integration System | Cisco Webex Hackathon

- Developed a **MERN stack** web application for autonomously tracking building occupancy during the COVID-19 Pandemic; used **OpenCV** to build an image classifier for detecting occupants and image motion vectors to track entry and exit
- Awarded **2nd Place** among over **100 teams** participating globally

## SKILLS

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**Relevant Courses:** 2D Computer Graphics, Machine Learning, Web App Development, Computer Vision, Artificial Intelligence, Data Visualizations, Files and Databases

**Programming Languages:** Python, JavaScript (React, Angular, Node, Express), Java, C, C++

**Technologies:** Python ML (Pandas, TensorFlow, PyTorch), MongoDB, Google Firebase, SQL, D3, Tableau, Node-RED, HTML, CSS