

JED TAN

jed.ctan@gmail.com ◇ linkedin.com/in/jedctan/ ◇ jedctan.github.io ◇ 919-619-1528

EDUCATION

Boston University

Computer Science - GPA: 3.98/4.00

Boston, MA
Expected May 2025

Relevant coursework: Data Structures, Algorithms, Distributed Systems, Database Design, Software Engineering
Spring 2025 Courses: Fullstack Engineering, Programming Language Design, Web Development

Languages: Python, Java, SQL, C#, C, XML, HTML, CSS, MATLAB

Tools & Technologies: AWS Certified Cloud Practitioner, Microsoft SQL Server, Oracle SQL Developer, MongoDB, Agile, Jira

Engineering: SOLIDWORKS Design Professional Certified, Fusion360, Abaqus, 3D Printing, Arduino

EXPERIENCE

Spectrum Internet - Database Administrator Intern

May 2024 - Aug 2024

- Collaborated with cross-functional teams (MSSQL, Oracle, MongoDB, Redshift) to design a database decision tree and developed an Oracle APEX app automating the process, currently used by 4 teams across the organization
- Led team of 5 and placed first in a company-wide hackathon with 200+ interns, winning the chance to deliver a technical presentation for our AI customer service tool to the executive leadership team
- Earned AWS Cloud Practitioner certification and contributed to company's cloud migration strategy

Dassault Systèmes / SolidWorks - Product Management Intern

May 2023 - Aug 2023

- Developed a design tool in C# with CAD software's API to automate the creation of 3D models based on user-defined dimensions, currently utilized by 5 teams to enhance productivity ([See Here!](#))
- Aided in the development of a new feature for the company's SaaS product, by creating complex CAD models and collaborating with engineering and design teams to target a new customer segment
- Collaborated with PMs to produce videos and use case demonstrations, supporting the growth strategy of the company's largest product

Johnson & Johnson - R&D Robotics Co-op

Aug 2022 - Dec 2022

- Awarded "Outstanding Co-op Term" by manager and team for completing 2-3x the work of typical co-ops
- Reduced processing time by 95% for analyzing large datasets from stress tests by developing a Python script utilizing Pandas
- Created a Python analysis tool using Matplotlib to visualize angular test data, which identified a critical flaw in a robotic prototype

SunTech Medical - Regulatory & Marketing Intern

May 2022 - Aug 2022

- Led medical device labeling project and brought devices to market by ensuring 250+ labels were compliant with MDR standards
- Directed weekly change notice meetings, coordinating tasks across engineering, QA, PM, and regulatory, and provided final sign-off
- Increased efficiency of labeling change workflow by 50% through streamlining SOPs and redesigning label database

PROJECTS

BU Innovation Pathway - Entrepreneurship Program for Student-led Ventures

- Conducted market research, developed a business plan, and built a prototype to aid visually impaired swimmers
- Gained support from multiple Paralympians, including an athlete with over 2 million followers on social media
- **Result:** Pitched to a panel of judges and accepted into the program for \$4,750 in funding and a personal mentor

Real-Time Proximity Monitoring System | AWS IoT Core, Amazon S3, C++, JavaScript, ESP32 Microcontroller

- Built a room monitor using an ESP32 and proximity sensor and connected to AWS IoT Core for secure data transmission
- Implemented real-time data processing by pushing sensor data to an S3 bucket via AWS IoT rules for storage and analysis
- **Result:** Web app hosted on Amazon S3, displaying real-time sensor data, accessible via mobile for remote monitoring

AI Undergrad Research | MATLAB, 3D Slicer | ([See Here!](#))

- Aided in creation of deep learning neural network in MATLAB capable of segmenting knee MRI images with 95-99% accuracy
- Selected for UNC's Abrams Scholar Program and awarded stipend for high productivity and excellence in the lab
- **Result:** Network deployed to UNC's Department of Exercise & Sports Science for use in articular cartilage research

AWARDS & HONORS

Spectrum Scholars Program: \$20,000 scholarship, mentorship, and internship offer (2.5% acceptance rate)

Denny's Hungry for Education Scholarship: \$2,500 scholarship for pitching an LGBTQ+ outreach program

NC State Study Abroad Scholarship: \$7,200 scholarship to study abroad in South Korea

Hack Innovat3 BU Hackathon: Top 10 placement for a web platform that allows users to create and share outfits

NCAA Division 1 Athlete: Active member of the Boston University D1 swim team (20+ hours training per week)