# Esat Duman

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## EDUCATION

**University Of Illinois at Chicago, Chicago IL**

*Bachelor of Science in Computer Science*                                                                          ***Expected: December 2024***

**Relevant Coursework:** Data Structures, Software Development, Software Design, Computer Algorithms, Systems Programming

## SKILLS

**Technical**: C/C++ (Full-Stack), Java (Full-Stack), Python, SQL, JavaScript, HTML & CSS, Agile, **Testing:** Unit Testing, Regression Testing, and Integration Testing

## PROJECTS

**Campus Map:**                                                                                                                  ***April 2023 – May 2023***
- Designed an efficient graph data structure in C++, leveraging adjacency matrices and maps, improving data organization and accessibility
- Implemented dynamic algorithms for real-time vertex and edge addition, showcasing expertise in map-based data structure manipulation.
- Utilized maps for streamlined information retrieval, enhancing analytical capabilities in graph-related operations

**CTA Blueline Data Display:**                                                                                    ***February 2023 – March 2023***
- Developed a console-based Python and SQL program for analyzing daily ridership data from the CTA Blue line database
- Calculated and presented total ridership, weekday ridership, Saturday ridership, and holiday ridership with percentages
- Implemented functions to extract and display essential statistics such as the number of stations, stops, entries, and date range

**Matrix Multiplier:**                                                                                               ***January 2023 – February 2023***
- Developed a dynamic matrix manipulation project in C++, employing object-oriented programming principles to create the matrix class, facilitating operations on matrices with varying sizes and jagged structures.
- Demonstrated expertise in memory management by devising efficient data structures and allocation techniques to handle jagged matrices, ensuring optimal memory utilization in the project.

## INTERNSHIP EXPERIENCE

**Sonsuz Design** | Remote, IL                                                                                     ***May 2023 – July 2023***

*Software Engineering Intern*
- Collaborated with the Sonsuz Design startup team to create "Trip Mate," an innovative travel planning website, contributing to both front-end (HTML, CSS, JavaScript) and back-end (Django, Python) development
- Participated in regular team meetings, providing valuable insights and suggestions for feature enhancements and future development roadmaps.
- Programmed, developed, and integrated a secure password authentication system for user accounts, enhancing data security and user privacy using Django and Python
- Demonstrated proficiency in HTML and JavaScript to seamlessly integrate external APIs, sourcing hotels, plane tickets, and car rental data, thus enriching the application's feature set and providing real-time, accurate travel information to users

## WORK EXPERIENCE

**IKEA** | Schaumburg, IL                                                                                             ***Aug 2021 – Present***

*Furniture Technician*
- Build Ikea products for display on the sales floor as well as request of customer
- Evaluate assurance for defective products and determined cause/solution with step-by-step case

**Amazon Logistics** | Mundelein, IL                                                                           ***Sep 2019 – Aug 2021***

*Warehouse Ambassador*
- Managed Amazon driver routes and diagnosed technical issues within Amazon apps for drivers

## LEADERSHIP

**Keystone Youth Center |** *Mentor*                                                                       ***August 2019 - Present***
- Foster academic and social growth among high school students through mentoring and tutoring. Present college guidance to students preparing for high school graduation and set goals for their career choices
- Oversee cultural and recreational activities for middle and highschoolers below at youth and cultural center