**Bugra Mert Aydin**

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**EDUCATION**

**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**

*Bachelor of Science in Computer Science*   *May 2024*

**Istanbul Technical University, Faculty of Computer and Informatics**

*Bachelor of Science in Information Systems Engineering May 2024*

**Cumulative GPA:** 3.34/4.00 | Dean’s List: Spring 2021 | Certificate of Appreciation

**TECHNICAL SKILLS**

Python, SQL, HTML, CSS, AngularJS, TypeScript, Java, JavaScript, C++, .Net, Dart, C, React, TailwindCSS,

Pandas, NumPy, Matplotlib, MySQL, Seaborn, Plotly, Excel, Power BI, Tableau.

Kivy, OpenCV, CSV, Git, MS Office, Binalyze AIR, KeygenSH.

**Coursework:** Data Mining, Human Computer Interaction, Probability and Statistical Methods, Software Engineering & Project Management.

**PROFESSIONAL EXPERIENCES**

**Mirabito Energy Products,** *Front-End Developer – Internship |* New York, US **Aug 2023 – May 2024**

* Developed Angular-based front-end solutions for the Tank Level Monitoring project.
* Created responsive UI features using TypeScript, HTML enhancing user experience.
* Improved data visualization and introduced a dark mode, dynamic search bar using CSS.
* Collaborated in an Agile environment, participating in weekly sprint planning and review meetings.

**TURK AI,** *AI Intern – Python Developer* | Ankara, Turkey  **Jul 2023 – Jul 2023**

* Analyzed and cleaned data using Python for efficient data management.
* Developed modular Python code, improving maintainability.
* Evaluated data sources for reliability and usability.
* Worked within an Agile team, participating in daily stand-ups to achieve sprint goals.

**DIFOSE Digital Forensics Services,** *Digital Forensics Intern* | Ankara, Turkey **Jun 2023 – Jul 2023**

* Conducted secure software licensing with KeygenSH.
* Enhanced software efficiency with encapsulated Python packages.
* Performed data extraction and quality checks using Binalyze AIR.

**PROJECT EXPERIENCES** **Basic Data Analysis and Visualization Dashboard,** *Python Developer* | Individual Project  **May 2024 – Present**

* Simulated data collection and cleaned/preprocessed data using Python (Pandas).
* Performed exploratory data analysis to identify trends, patterns, and correlations.
* Created interactive visualizations using Plotly and developed a Dash application to enable user interaction with data.

**Time-Series Data Clustering using Modified K-means,** *Python Developer* | Individual Project **Jan 2024 – May 2024**

* Developed a Python application to cluster time-series data using a modified K-means algorithm.
* Analyzed a dataset 600 control charts to identify trends and patterns.
* Utilized Pandas for data manipulation and Matplotlib for data visualization.

**Spotify Wrapper App,** *Python Co-Developer* | Group Project  **Jul 2023 – Aug 2023**

* Designed and implemented a Python-based app to show Spotify user’s analytics using the Kivy framework.
* Integrated spotipy and moviepy libraries for enhanced functionality.
* Conducted unit testing and validation to ensure app reliability and performance.

**Railway Reservation System,** *Python Developer |* Individual Project  **Apr 2023 – May 2023**

* Designed and implemented a MySQL database system to manage railway reservations.
* Developed a command-line interface for user interaction and ensured data accuracy.
* Managed data integration and implemented error handling mechanisms.

**Road Line Detection,** *Python Developer |* Individual Project  **Apr 2023 – May 2023**

* Developed a road line detection system using OpenCV and computer vision techniques.
* Implemented Canny Edge Detection and Hough Transform algorithms.
* Enhanced detection accuracy through noise handling and performance optimization.

**Independent Works,** *Python Developer |* Individual Project  **May 2022 – Aug 2022**

* Developed various command-line applications without external libraries, showcasing problem-solving and programming skills.

**LEADERSHIP EXPERIENCES**

**ITU-BINGO Community,** *Founder and President |* Istanbul**,** Turkey  **Sep 2022 – Present**

* Formed a community to support and connect Turkish SUNY students, got over 50 registrations in the first month.
* Received a Certificate of Appreciation from the President of ITU in recognition of founding and successfully leading the community.
* Hosted over 10 events including zoom events bridging SUNY students and alumni worldwide to share post-graduation career insights.
* Actively mentoring more than 10 students and planning accommodations, and transportations for the newcomers.

**VOLUNTEERING EXPERIENCES**

**ITU Dance Club,** *Dance Assistant |* Istanbul, Turkey  **Sep 2022 – May 2023**

**TURK 112 class at Binghamton University,** *Volunteer Assistant |* New York, US   **Feb 2022 – Jun 2022**

**ESL Conversation Pairs Program,** *Language Partner |* New York, US  **Aug 2021 – Dec 2021**