**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* **Aug 2020 - May 2024**

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

*Bachelor of Science in Information Systems Engineering* **Sep 2018 - May 2024**

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

**TECHNICAL SKILLS**

**Languages:** Python, Java, JavaScript, SQL, AngularJS, HTML, TypeScript, CSS, C++, .Net, Dart, C.

**Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Database Systems, IT Systems Analysis and Design.

**Additional:** React, TailwindCSS, Node.js, Express, Vite, Framer Motion, MySQL, Kivy, OpenCV, Git, MS Office.

**PROFESSIONAL EXPERIENCES**

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

* Developed and maintained responsive web applications using Angular and TypeScript.
* Created and enhanced user interfaces with HTML, CSS, and JavaScript to improve user experience and engagement.
* Implemented detailed data visualizations for business intelligence solutions, utilizing SVG and Angular animations.
* Collaborated in an agile environment, participating in daily stand-ups and sprint meetings.

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

* Analyzed, cleaned, and interpreted data using Python, ensuring efficient data management and manipulation for applications.
* Supported the development of modular and organized code using Python modules, enhancing code maintainability and reusability.
* Evaluated data sources for reliability and usability, contributing to improved performance and data quality.

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

* Conducted secure software licensing with KeygenSH, supporting controlled software product distribution.
* Improved software efficiency through Python encapsulated packages, enhancing code modularity and reusability.
* Evaluated data sources and performed in-depth research on RFC3161 standards to implement secure digital data timestamping.

**PROJECT EXPERIENCES**

**Adaptive Portfolio Website with Multi-Mode UI/UX Design System,** *Full Stack Developer* | Individual Project **Apr 2025 – Present**

* Engineered a React-based frontend using TypeScript and TailwindCSS with a component-based architecture.
* Implemented a unique three-mode design system showcasing different approaches to UI/UX design.
* Created reusable UI components and custom hooks for enhanced code maintainability.
* Built responsive layouts ensuring optimal display across all device sizes using modern CSS techniques.
* Integrated dynamic routing and state management for seamless user experience.
* Git version control, automated build scripts (npm, esbuild, vite), and cloud deployment via Render simulating CI/CD workflows.

**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, cleaned, and interpreted a 600 control charts, categorized into six classes to identify trends and patterns.
* Utilized Pandas for data manipulation and Matplotlib for visualization.

**Spotify Wrapper App,** *Full Stack Developer* | Group Project  **Jul 2023 – Aug 2023**

* Designed and implemented a Python-based app to show Spotify user’s analytics using the Kivy framework.
* Built responsive design and interactive buttons for toggling tracking data, improving data presentation.
* Conducted unit testing and validation using the unittest framework, secure data integration.

**Railway Reservation System,** *Full Stack Developer |* Individual Project  **Jan 2023 – May 2023**

* Designed and implemented a relational database system using MySQL to manage railway reservations.
* Developed a command-line interface (CLI) for user interaction, simulated user engagement for prototype.
* Implemented error handling mechanisms to secure data accuracy and integrity.

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

* Developed a road line detection system using OpenCV and computer vision techniques.
* Implemented Canny Edge Detection and Hough Transform algorithms for accurate lane detection.
* Optimized performance by fine tuning, tested with over 500 images from Kaggle's dataset.

**LEADERSHIP EXPERIENCES**

**ITU-BINGO Community,** *Founder and President |* Istanbul**,** Turkey  **Sep 2022 – Jan 2025**

* 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 bridging SUNY students and alumni worldwide to share post-graduation career insights.
* Mentored more than 5 students. Managed their accommodations and transportations before arrival to US.