

BORAN OZEL (Software Developer)

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PROFILE SUMMARY

Experienced recent graduate Full-stack software engineer specializing in backend and frontend development, object detection, and custom software solutions. Proficient in C++, Python, C#, JavaScript, HTML, CSS and PHP, with expertise in developing Windows Applications, databases, and security systems. Skilled in designing complex systems using OpenCV, YOLO, neural networks, and AI, with practical experience in hardware emulation, electrical circuits and embedded systems. Strong knowledge of SQL, UI design, Linux, Flask, restful APIs and hardware boards like Arduino and ESP32. Solid foundation in computer engineering, including operating systems, digital design, and machine learning skills.

PROFESSIONAL SKILLS

Languages: C++ | Python | C# | JavaScript | PHP | HTML/CSS
Technologies: AI | Neural Networks | LSTM | Object Detection | PID Control | Data Scraping
Frameworks & Libraries: Flask | YOLO | OpenCV | TensorFlow | PyTorch | Keras | NumPy | Matplotlib | Tesseract | BeautifulSoup
Databases & Other Tech Skills: SQL | Auth Systems | Linux | Arduino | ESP32 | PlatformIO | Proteus | Google Colab | UI Design

WORK EXPERIENCE

PythonP. Software | Moreno Valley, USA

May 2019 – Present

Owner of the company

- Developed 20+ software solutions for clients ranging from small businesses to enterprise corporations, improving operational efficiency.
- Engineered advanced object detection systems using OpenCV, YOLO, Python, and C++, resulting in 95%+ accuracy in identification.
- Designed and integrated intuitive user interfaces for object detection software, reducing user error and improving overall usability.
- Led the development of security protocols to ensure data security, successfully safeguarding client data with zero security incidents.
- Optimized backend systems and customer portals, resulting faster download time for users that improved customer retention.
- Implemented secure database architectures and admin panels that managed 1,000+ user subscriptions and software downloads, enhancing data integrity and reducing potential breaches by 40%.

Deka Bilişim | Istanbul, Turkey

Aug 2020 – Apr 2022

Backend Developer (Remote)

- Spearheaded development of RESTful APIs for Order Management, integrating DEKA BİLİŞİM KURUMSAL's systems to streamline communication between inventory, order processing, and delivery systems, resulting in a 38% improvement in operational efficiency.
- Engineered real-time inventory management system, automated stock tracking, marked low-stock items & triggered automatic reorders.
- Enhanced data synchronization and reduced manual intervention, enabling interaction between order processing and inventory systems.
- Developed high-performance RESTful APIs to integrate disparate systems, improving order management processes and enhancing communication between teams, reducing order processing times by 18%.

PROJECTS

ESP-32-BLE-Mouse

- The ESP32 reads data via serial communication, processes it, and uses BLE (Bluetooth Low Energy) to act as a mouse.

MultiApp Dashboard

- A platform designed to sell and management large scale software applications through an advanced subscription and tier system.

Freedom CC Timesheet Website

- Advanced platform for managing clock-ins and clock-outs, track job details, and log employee roles and locations accurately.

PythonP Vision

- YOLO PID aimbot with Advanced Recoil Prediction a gaming aid that combines YOLO-based object detection with a PID.

Neural Network project (RNN): LSTM-Based Mouse Navigation

- This project uses a trained LSTM model to move the mouse cursor on a screen. The movement is controlled by predicting the velocity required to reach a target position.

Sorting Algorithm Visualizer

- This web application visualizes different sorting algorithms to help you understand how they work in a dynamic and interactive way.

EDUCATION & CERTIFICATIONS

Bachelor of Computer Engineering | California State University, San Bernardino

Aug 2020 – Jul 2024

Digital Logic

(CSE 3100)

Operating System

(CSE 4600)

Embedded Systems

(CSE 4560)

Algorithm Analysis

(CSE 4310)

Platform Computing

(CSE 4500)

Digital System Design

(CSE 5210)

Machine Organization

(CSE 2130)

Networking & Security

(CSE 4100)

Advanced Operating System

(CSE 4610)

Sustainable Engineering Design

(CSE 5408)

Contemporary Computer Architecture

(CSE 4010)