

# Temel Lodos Durak



## CONTACT

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**Portfolio Link:** tlodosdurak.vercel.app **Youtube Link:** https://www.youtube.com/@top10countryrankings

Fall 2024 Software Engineering graduate with strong expertise in design, development, and testing. Proficient in multiple programming languages and development frameworks, with hands-on experience in full-stack development, database management, and cloud services. Seeking to contribute as a key member of a dynamic team.



## EDUCATION

### Florida Atlantic University

*Bachelor of Science in Computer Science (BSCS) | Minor Artificial Intelligence | Minor Cybersecurity*  
Honors: (GPA: 3.9/4.0) | Dean's List (2023 & 2024)

*Boca Raton, FL  
August 2022-Fall 2024*

### George Washington University

*Bachelor of Science in Computer Science (BSCS)*

*Washington, D.C  
August 2019-May 2022*

**Relevant Coursework:** Design and Analysis of Algorithms, Object-Oriented Design, Advanced Python Programming, Full-Stack Web Development, Principles of Software Engineering, Intro to Database Structures, Deep Learning, Artificial Intelligence, Data Mining Mach Learning, Foundations of Cybersecurity, Computer Architecture, Computer Operating Systems



## PROFESSIONAL EXPERIENCE

### Turkish Airlines

*Web Backend Software Engineer Intern*

*Istanbul, Turkey  
June–August 2022*

- Improved the loyalty program's online services through full-stack development using **Java**, **Spring** and **React**, addressing and resolving numerous bug tickets.
- Managed **NoSQL (MongoDB)** databases to support web application development and deployment, leading to enhanced data management and application performance.
- Collaborated within the Miles and Smiles web backend and frontend office, focusing on enhancing user experience and website functionality.

### Florida Atlantic University

*Teaching Assistant, CDA 4102 Computer Architecture*

*Boca Raton, Florida  
February–Sep 2023*

- Facilitated student learning through **leading classes**, grading, and providing tailored support, enhancing understanding and performance in **computer architecture**.
- Deepened personal expertise in computer architecture while **mentoring** and supporting students in coursework and projects.



## PROJECTS

### Automated YouTube Channel

*August 2023–Present*

*Developer and Server Admin*

- Accomplished subscriber growth of **70K+** and **45 million+** views through automated content generation using a home **Raspberry Pi server** and custom **Python** physics engine.
- Developed a custom Python-based **physics engine** and **video generation pipeline** to be used in videos, resulting in high-quality, consistent content production with **99.5%** uptime and steady passive income.

### Smart Wildlife Monitoring Camera

*October 2023-May 2024*

*Project Manager & Team Lead*

- Led a **team of five** to develop a wildlife camera system through integration of hardware and software using **Raspberry Pi**, **YOLOv5**, and **delay tolerant** Bluetooth data transfer.
- Managed the design and implementation of **solar-powered**, energy-efficient systems, resulting in **long-term**, remote wildlife observation with minimal need for maintenance or physical access to be used in **Skukuza Research Station** in South Africa.
- Achieved secure and reliable data transmission from remote locations through **Delay Tolerant Networking** and **node-to-node** custom **Bluetooth package transfer** ensuring data integrity in disrupted network conditions.

### Cybersecurity in E-Commerce

*May-June 2024*

*Full-Stack Developer*

- Designed and developed a secure, demo e-commerce platform, implementing advanced encryption techniques using **bcrypt**, **scrypt**, and **argon2ID**.
- Performed rigorous **benchmarking** and comparison of encryption methods to establish best practices for protecting sensitive customer data.
- Created a secure and user-friendly interface using **React** and **DaisyUI**, demonstrating how enhanced security measures can improve user trust and engagement.



## TECHNICAL SKILLS

**Languages:** Javascript, Python, Java, C#, C++, C, TypeScript, .NET, HTML, CSS

**Developer Tools:** Git, GitHub, AWS, Azure, Linux, Vim, Scrum, Agile, Slack, Jira, Vercel, and AI tools.

**Frameworks/Libraries:** React, Node.js, SQL/NoSQL, Next.js, Jest, CI/CD (GitHub Actions)