

Gokhan Duzel

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EDUCATION

University of Ottawa

B.Sc. in Software Engineering

Ottawa, Canada / 2018 - 2023

Istanbul Saint-Joseph French High School

High School Diploma

Istanbul, Turkey / 2013 - 2018

SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, C++, C,

Web Technologies:

- Frontend Development:** HTML, CSS, JSX, React, React Native, NextJS, Redux, Angular, Bootstrap, Tailwind CSS

- Backend Development:** Django, Express, Node.js, Flask, .NET, REST API, Microservices

Programming Paradigms & Methodologies: Object-oriented programming (OOP), Functional Programming, Agile software development

Databases: SQL, ORM, MongoDB, MariaDB, PostgreSQL, Firebase, Oracle

Cloud Technologies: AWS S3, IBM Cloudant, IBM Cloud Code Engine

DevOps and CI/CD Tools: Docker, Kubernetes, Jenkins, Github Actions

Testing: Postman, Bash scripting, Slash framework, pytest, unit testing, integration testing, Cross-Browser testing, Usability testing

Collaboration and Version Control:

- Project Management:** Confluence, Jira, Trello, Atlassian

- Version Control Systems:** Git, GitHub, BitBucket

Operating Systems: Linux, Microsoft, QNX

Languages: English (Fluent), French (Fluent), Turkish (Native)

Certificates: IBM Full Stack Developer Certificate

EXPERIENCE

Software Infrastructure Student Engineer, Ford Motor Company

Ottawa, Canada / 05, 2022 - 09, 2022

- Developed and automated test scripts for the Enhanced Communication Gate (ECG) in smart cars using Python with Slash testing framework, and Paramiko, improving test coverage and reliability.
- Employed Bash scripting for automation, enhancing the efficiency of testing processes.
- Conducted manual tests to validate ECG provisioning states, ensuring system integrity.
- Applied Object-Oriented Programming (OOP) techniques to develop structured and maintainable test scripts, enhancing the scalability and efficiency of automation efforts.
- Utilized QNX and Linux for network management and VMs for remote ECG testing, streamlining troubleshooting.
- Collaborated with the development team using Git, GitHub, Jenkins, Jira, and Confluence to document and report test results, facilitating rapid improvements.
- Assembled the setup of a custom ECG environment using provided hardware, demonstrating adaptability and hands-on technical skills.

Front-end Developer, University of Ottawa

Ottawa, Canada / 05, 2021 - 09, 2021

- Acted as the primary front-end developer, for UOttawa Co-op Navigator mobile application, taking ownership of the codebase and effectively managing version control using Git.
- Skilled in React Native with TypeScript, employing CSS and Bootstrap for mobile app development.
- Utilized Postman for testing and validating backend API connections.

- Planned weekly progress meetings with the back-end team to discuss improvements and address any challenges.

Junior Web Developer, University of Ottawa

Ottawa, Canada / 09, 2020 - 12, 2020

- Engaged in the development of "Ventus," the University of Ottawa's student academic accommodations management portal web application, playing a key role in its enhancement and functionality employing PHP, HTML, CSS, and SQL.
- Demonstrated proficiency in version control management through the adept use of Git & GitHub, ensuring streamlined project progression and effective code collaboration.
- Excelled in utilizing MariaDB, showcasing expertise in the formulation and optimization of SQL queries, as well as in the creation and management of database tables.
- Actively participated in collaborative team meetings, where responsibilities included assessing task complexities, distributing workloads amongst team members, and engaging in comprehensive discussions about ongoing progress and challenges faced during the development process.

Junior Web Developer, Acibadem Healthcare Group

Istanbul, Turkey / 01, 2020 - 05, 2020

- Collaborated with the Acibadem Healthcare R&D team to enhance the employer website page, optimizing user experience and functionality.
- Employed Angular and TypeScript effectively to produce vibrant and interactive web applications tailored to user needs.
- Acquired proficiency in database systems including MongoDB and OracleDB, expanding expertise in data management and retrieval.
- Successfully integrated various technologies to enhance system performance and functionality, demonstrating adaptability and a keen problem-solving approach.

PROJECTS

SWAPS - Barter and Trade application

Ottawa, Canada / 2024

(Node.js, React, Redux, JavaScript, MongoDB, AWS S3, Socket.io, Google Maps API, Tailwind CSS)

- Developed a comprehensive full-stack web application that facilitates item swapping and trading between users, featuring item listings, user profiles, swap requests, and location-based searches.
- Utilized React to create a dynamic and responsive frontend, coupled with Node.js for a robust and scalable backend architecture, enhancing overall application performance.
- Integrated AWS S3 to facilitate efficient storage and retrieval of item images, ensuring high availability and optimized performance.
- Implemented real-time chat functionality using Socket.io, enabling seamless and instant communication between users, thereby enhancing the overall user experience.
- Utilized the Google Maps API to provide precise location-based item searches, allowing users to discover items in close proximity, significantly improving search relevance.
- Incorporated secure user authentication and authorization mechanisms using cookies, ensuring the protection of user data and the integrity of transactions, and enhancing my understanding of secure data handling.
- Designed and deployed a sophisticated search feature, leveraging user location data to filter and present relevant items, which enhanced usability and user engagement.

CRUZR -Car Marketplace Web Application

Ottawa, Canada / 2024

(Node.js, React, TypeScript, MongoDB, Redux, Socket.io, Cloudinary, Heroku)

- Developed a full-stack car marketplace application leveraging Node.js and React, both implemented in TypeScript, to ensure type safety and scalability.
- Designed and implemented MongoDB schemas using Mongoose to structure and manage database operations effectively.
- Created RESTful API endpoints to facilitate data retrieval and manipulation between the MongoDB backend and the React frontend.
- Integrated Redux with Redux Toolkit in the React frontend to manage and centralize application state efficiently.
- Implemented user authentication and session management using cookies to securely store user credentials and session information.
- Developed a real-time group chat feature using Socket.io to enable live communication between buyers and car owners, enhancing user engagement.
- Implemented an image storage solution with Cloudinary, including an image uploading widget, allowing users to easily upload and manage car images.

- Deployed the application on Heroku, ensuring continuous deployment and availability on the web.

Car Dealership Reviews

Ottawa, Canada / 2023

(Python, JavaScript, Django, Node.js, HTML, CSS, Docker, Kubernetes, IBM Cloudant)

- Developed a Full-Stack web application using Django, Python, and JavaScript, integrating IBM Watson NLU for sentiment analysis on car dealership reviews.
- Leveraged IBM Cloud services, including Cloudant for database management, and employed RESTful API architecture with Flask.
- Containerized the Django application, utilizing Kubernetes for deployment on the IBM Cloud platform.
- Implemented static and dynamic pages, enhanced user experience with intuitive navigation, and conducted end-to-end testing for seamless functionality.

Music Band “Djirection” Website with Microservices

Ottawa, Canada / 2023

(Python, Django, Flask, Node.js, HTML, micro-services, Kubernetes, Docker, IBM Cloud Code Engine)

- Engineered two Flask-based microservices for the 'Djirection' music band's website, with one service integrating MongoDB for efficient song data management.
- Containerized the Pictures microservice, deploying it to IBM Code Engine, and subsequently containerized the Songs service for deployment to an OpenShift cluster.
- Orchestrated the deployment of the main application to the IBM Kubernetes Service, leveraging YAML configuration files for precise and scalable deployment.