JULIUS PARK

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SKILLS

Languages Go, Python, C#, C/C++, JavaScript, TypeScript, SQL, Bash, Java
Frameworks React, Angular, .NET, Django, Flask, Node.js, Next.js
Tools GIT, PostgreSQL, MySQL, AWS, Redis, Nginx, Selenium, Grafana, Entity Framework

EXPERIENCE

Software Engineer July 2023 – Present
ComputerTalk *Remote*

- Lead integration of agCharts in **TypeScript, Angular** to enable real-time dashboard displays for 100,000+ datasets
- Developed low latency IVR (voice) infrastructure in **C#**, leveraging **Redis** for server management
- Built a real-time transcription service and granular permissions manager using **.NET Core, SignalR, gRPC,** and **OpenAI TTS**, contributing to a $500k+ contract win and achieving SOC 2 compliance
- Optimized **SQL** query performance of 1 million+ agent statistics, reducing average time by 5.1 seconds
- Collaborated with ML team to develop, layout and build internal chatbot using **Azure Bot Service, LUIS,** and **ML models** for natural language understanding; streamlined PCI DSS audits and certification processes

Software Engineer Sept. 2022 – Dec. 2022
OpenText *Remote*

- Developed modular features in the metrics dashboard redesign using **React, Redux, GraphQL, SpringBoot**
- Maintained large **C#** codebase to modularize statistical data for efficient direct database querying
- Presented a new feature to the regional director; successfully delivered V1 ahead of schedule before Q4

Project Designer Jan. 2022 – Apr. 2022
Arcadis IBI Group *Remote*

- Developed CIVIL3D design tool using **.NET** and **ObjectARX** to update grading plans with 20 parameters
- Collaborated with internal LD team to export survey data in AutoCAD, improving design time and services
- Managed communication with subconsultants, coordinated project information transfer, reviewed plans for consistency, and organized documents to meet submission deadlines

Quality Assurance Sept. 2018 - Dec. 2018
Economical Insurance *Remote*

- Developed test scripts, utilized QTP to improve client address accessibility and vehicle status
- Collaborated with team of developers on the visualization of vehicle trackers in **React** for improved user input
- Improved **PostgreSQL** query speed by 30%, designed models to support imported data from Snowflake data stores

CAPSTONE

Designed a dynamic traffic control solution for Toronto's congested urban areas. Using Dynamic Mapping and Resilience-Based Adaptive Traffic Signal Strategy, real-time traffic flow were adjusted per minute to reduce travel time on any time of day. (Python, SQL, Flask). Featured on University of Waterloo 2023's Engineering Showcase. (Rade Solutions).

EDUCATION

University of Waterloo Waterloo, ON
Bachelors of Applied Science Degree - Honours Engineering Graduated June 2023
* Nov 2017: University of Waterloo Presidents Scholarship
* Nov 2019: Professor. Khaled Soudki Design Competition; Awarded Winning Team