




# JULIUS PARK

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## SKILLS

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**Languages**    Go, Python, C#, C++, JavaScript, SQL  
**Frameworks**   React, Angular, TypeScript, .NET, Gin, GraphQL, Node.js, Next.js  
**Tools**            AWS S3, EMR, Docker, Git, Redis, Nginx, Entity Framework

## EXPERIENCE

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**Software Engineer** July 2023 – Present  
ComputerTalk Technologies *Remote*

- Developed low latency IVR (voice) infrastructure in **C#**, **Redis** handling 10,000+ concurrency calls at sub 30ms
- Built back-end microservices to categorize AI provider metadata using **Azure Service Bus**, **SQL** and **gRPC**, optimizing API usage to reduce redundancy, improve query efficiency, and lower system latency
- Engineered a cache manager to optimize **SQL** queries on 10M+ agent statistics, achieving sub 900ms responses
- Created a real-time statistics dashboard in **TypeScript** and **Angular**, enabling live tracking of 100,000+ statistics and directly contributing to \$2M in revenue

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

- Developed microservices to enable modular features in dashboard using **React**, **GraphQL**, **SpringBoot**
- Developed **Spark** commands to ingest high volume parquet data into **AWS S3** using EMR (2 mil rows/day)
- Implemented pipeline using the **ELK** stack (Elasticsearch, Logstash, Kibana) to centralize logs

**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 **jasmine** unit 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

## EDUCATION

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**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
- Relevant Courses: Algorithms, Data Structures, UI/UX, OS, Databases, Image Processing, Networks, A.I., HCI
- **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).