

# Udall Mo

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## Profile

- Full-Stack Engineer with **4+ years of experience** in delivering end-to-end web applications utilizing test-driven development (TDD)
- Experienced in developing and maintaining software microservices, databases, and API development, utilizing modern technologies
- Highly collaborative and proactive team player with exceptional communication skills, adept at effectively collaborating within teams

## Experience

### Software Engineer

#### Maple

San Francisco, CA, USA

2023 - 2024

JavaScript, TypeScript, React, Postgres, SQL, Datadog, NestJS

- Collaborated with a team of nine engineers to build a comprehensive workforce management suite platform for direct care workers
- **Led a leave banks project**, managing **system design**, coordinating meetings, and presenting the project to stakeholders
- Implemented user configuration and **CRON-based scheduling** for the leave bank system, integrating with third-party payroll services
- Contributed to the development of product growth features, leading to a **40% increased customer inquiries about new products**
- Refactored a scheduling printing service to streamline implementation and improve code quality for future scalability

### Software Developer II

#### Varicent

Toronto, ON, Canada

2021 - 2023

JavaScript, TypeScript, React, Redux, C#, .NET, Postgres, AWS

- Architected and deployed a data mechanism to enable 50+ enterprise clients to write concurrently to multiple databases
- Developed and orchestrated a backend service leveraging **Amazon S3, Presto, and AWS Glue** to empower efficient data fetching
- Built **REST APIs and UIs** that enable the management of parameters for calculation and aggregation functionality within the system
- Attained **95% coverage** of form module use cases by deploying **E2E, unit, and functional testing** using Cypress and Jest
- Self-initiate enhancements to system performance by optimizing the payload, resulting in **75% reduction in database write times**

### Software Engineer

#### Wise Systems

Boston, MA, USA

2020

Java, Scala, Polymer, NodeJS, MongoDB, JavaScript, Python, Postgres

- Led the development of a **delivery route optimization** feature, collaborating with a cross-functional team with 10 product engineers
- **Improved data extraction by 24%** through the utilization of JS format libraries and the standardization of preprocessed data
- Mitigated 20% of user experience bugs through the creation of error handlers addressing Polymer type compatibility issues

### Full-Stack Engineer

#### RouteThis

Kitchener, ON, Canada

2019

Objective-C, Java, JavaScript, React, NodeJS, MongoDB

- Created a dashboard feature utilizing modern frameworks to provide technical recommendations and solutions for network issues
- Developed an **internet network congestion identifier** utilizing GCP, data mining and WebPacks to provide predictive insights
- Decreased customer call deflections by 47% by implementing WebSocket features to connect to **native mobile applications**

## Skills

- **Languages:** JavaScript | TypeScript | Python | Java | Scala | C# | SQL | Postgres | MongoDB | GraphQL | Go
- **Tools/Frameworks:** Git | AWS | GCP | CI/CD | Node | Express | React | Redux | Tailwind | Linux | JUnit | Jest | Cypress | Vercel | Datadog
- **Concepts:** REST | API | OOP | Full-stack | Back-end | Front-end | Microservices | Computer Vision | Database | Scrum | Agile | DevOps

## Projects

- **Tube Cube** ([link](#)): Developed and executed a weekly script to extract top Spotify songs, download videos, archive them in AWS S3, and display on a Raspberry Pi media player using NumPy, Spotify API, and PyTube
- **Video Barcode Converter** ([link](#)): Deployed a video-to-color wheel generator using **OpenCV, NumPy, and the KMeans** on Etsy
- **Sorting Algorithm Visualizer** ([link](#)): Developed an animated web visualizer that displays sorting algorithms utilizing **TailwindCSS**

## Education

### Bachelor of Applied Science

#### University of Waterloo

Waterloo, ON, Canada

Apr 2021

- Major in Computer Engineering