

ZAKI AHMAD

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US Citizen | Albany, NY

EXPERIENCE

Office of the NYS Attorney General

Latham, NY, USA

IT Specialist 3

August 2025 - Present

- Directed full stack development across suite of enterprise applications serving 15+ bureaus and ~500K annual users
- Led migration of 15+ complaint forms from legacy Oracle ADF to modern **React/C#/.NET Core** stack on Azure, reducing form creation time from 8 months to 3 weeks (95% reduction) and processing over **1,500 monthly submissions** across Civil Rights, Employment, and Healthcare bureaus
- Engineered database-driven dynamic form rendering system using **SQL Server** and **React**, eliminating 95% of hardcoded form logic and enabling non-technical staff to deploy forms via configuration tables instead of manual code changes
- Interfaced .NET API with **SQL data pipeline**—15 database functions that transform submissions into JSON payloads for Oracle Siebel integration, handling data migrations and ensuring **zero data loss across 10,000+ records**
- Spearheading **testing automation initiative** across applications using Selenium and Jest to establish comprehensive QA processes
- Architected and maintaining **SQL infrastructure** with 30 tables, 8 views, and 6 stored procedures supporting critical data operations
- Established CI/CD pipelines using Docker and GitLab, **automating deployments** to dev/test/UAT environments with zero-downtime releases and reducing deployment time from hours to minutes

Office of the NYS Attorney General

Latham, NY, USA

IT Specialist 2

November 2023 - July 2025

- Developed NYVRA preclearance portal enabling covered jurisdictions to submit voting location change requests for Civil Rights Bureau review, implementing **role-based access control with Microsoft Entra** (jurisdiction vs bureau roles), and building React frontend with **optimized state management**
- Designed and implemented RESTful APIs in ASP.NET Core for form submissions, user authentication, and data retrieval, with comprehensive error handling and logging
- Improved form performance by 95%, reducing load times from 5+ seconds to sub-second rendering through React optimization and **efficient API design**
- Integrated Microsoft Graph API to build automated legislative tracking system that scrapes Open Legislation API, populates SharePoint lists with bills awaiting governor signature, and triggers Power Automate notification flows for stakeholder engagement

Brandsbyday

Albany, NY, USA

Web Analytics & Development Intern

February 2022 - August 2022

- Analyzed user behavior and improved under-performing elements of the Brandsbyday website, resulting in a 20% increase in site engagement and a 30% increase in user retention
- Implemented improvements to the website, leading to a 20% decrease in page load time and a 15% reduction in bounce rate
- Translated low/high fidelity mockups into JavaScript, HTML, and CSS for Brandsbyday clients, contributing to a significant increase in client satisfaction

PROJECTS

Globeplot - www.globeplot.com

May 2025 - June 2025

- Engineered an AI-powered travel intelligence platform using **React, Express.js, Firebase**, and **Mistral AI** that automatically extracts structured data from travel documents, reducing manual entry by 90% and processing 100+ document types with real-time feedback
- Architected a real-time collaborative mapping system with Mapbox GL featuring **intelligent coordinate clustering, automatic geocoding** of thousands of locations, and dynamic route visualization with sub-100ms performance across desktop and mobile
- Built production-ready Firebase infrastructure with advanced security rules, **multi-tenant document management**, and intelligent **rate limiting** that scales from individual users to enterprise usage while maintaining data integrity
- Implemented zero-downtime trip sharing architecture with cryptographically secure tokens, granular access controls, and seamless real-time collaboration enabling secure itinerary sharing across unlimited users

SKILLS

Languages: C#, JavaScript/TypeScript, Java, Python, SQL

Frontend: React.js, Next.js, Zustand, TailwindCSS, Framer Motion

Backend: ASP.NET, Entity Framework, Node.js, Express.js, REST APIs

Database: SQL Server, PLSQL, Database Procedures, Query Optimization, MongoDB, Firebase

Cloud/DevOps: Microsoft Azure, Docker, GitLab CI/CD, Git, JIRA

Tools: Power BI, PowerAutomate, SharePoint, PowerApps

EDUCATION

University at Buffalo - SUNY

August 2019 - May 2023

Bachelor's, Computer Science

GPA: 3.5

CERTIFICATIONS

Microsoft Career Essentials in Data Analysis