

GUANGZHENG WU (DAVID)

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SUMMARY

Full stack engineer with 7+ years of experience in cloud security building and operating large-scale backend service, data pipeline, and Azure Portal UX; focusing on high-throughput systems across multi-region .NET services on Azure.

PROFESSIONAL EXPERIENCE

Microsoft Corporation

Atlanta, GA

Software Engineer II (L62)

December 2021 – Present

- Primary engineer for Microsoft's compromised account detection service behind Microsoft Entra ID (Azure AD) which ingests 50M daily breaches and compromised password signals for a fleet of Microsoft services and products.
- Led credential mitigation in the company's highest-severity incident response by designing a manual override path that preempts normal pipeline scheduling to push a targeted credential batch to the front, cutting end-to-end mitigation from days to 6-8 hours.
- Shipped Risky Users V2, a React blade in the Entra ID admin center with a risk-event timeline and detection context panel for managing tenant compromised accounts.
- Rebuilt four separate V1 credential processing services into one .NET 8 runtime service; established a new credential scheduling pipeline which cut processing overhead latency from max 3 days to within 24 hours.
- Own the service production of VM fleet; expand and scale into new public and sovereign cloud regions. Manage autoscale policies and platform metrics, load balancing with health probes and heartbeat checks.
- Migrated the Conditional Access admin experience onto Microsoft Graph with no customer-facing regressions, and co-own the Security Defaults blade in the Entra admin center.
- Developed an AI agent tool for on-call rotations saving 50% -75% per incident by running daily livesite summaries and assists on-call engineers with triaging incidents via telemetry, features a RAG layer over TSGs and team documentations.
- Implemented credential encryption that enhanced the foundation of compromised credential service through the use of AES CBC with HMAC schema.
- Coach new members who joined the team, taking each through their first production change and on-call rotation.

CareerBuilder, LLC

Atlanta, GA

Software Engineer II

August 2019 – December 2021

- Developed backend services for the Talent Discovery Platform, including resume data processing, job skill taxonomy, job search, and geocoding auto-completion.
- Owned CareerPath, a job-recommendation product built on an AWS Neptune graph database; partnered with Data Science on candidate relevancy and matching, and added a caching layer that cut repeat traffic to the graph
- Built modular AWS infrastructure in Terraform and drove cost reduction estimated to be \$170K/year through elastic resourcing, scaling-policy analysis, and spot instances, improving ECS container load efficiency by 40%
- Brought in Milvus for vector search, which improved relevancy on semantic candidate matching
- Hardened the resume processor with a data security layer backed by the Avira anti-virus API

qMenu, Inc.

Atlanta, GA

Software Engineer

April 2019 – August 2019

- Built a SaaS platform providing transaction processing, ordering, and invoicing for restaurant clients, including quick-menu technology that let owners manage their online presence and food ordering independently
 - Launched the qMenu iOS and Android apps end to end (backend controllers and frontend UI), serving 10,000+ business clients; 1M+ downloads and a top-100 App Store food-delivery ranking
 - Led AWS cloud integration across multiple edge locations and built Node.js web automation for Google My Business
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EDUCATION & CREDENTIALS

Georgia State University

M.S., Computer Science

May 2018

B.S., Computer Science

May 2016

Certifications

AWS Certified Solutions Architect – Associate

January 2021

Microsoft Certified: Azure Fundamentals (AZ-900)

July 2021

SKILLS

Languages & Infra: C#/.NET, TypeScript/JavaScript, Python, Java, KQL, Azure DevOps, Terraform, Docker, Playwright

Cloud & Identity: Azure (Entra ID, Key Vault, Event Hubs, Synapse, Data Explorer), AWS (ECS, Lambda, Neptune, S3)