G A B R I E L   T O C C I

Senior Cloud Solutions Architect

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SUMMARY

I have over a decade of experience leading successful initiatives and optimizing IT operations, impacting hundreds of thousands of students worldwide. This passion started in my early years in construction, where I found satisfaction in the transformative process of building something from inception to completion. Today, I've shifted to improving and modernizing enterprise software systems. I enjoy leading digital transformations while delivering solutions that allow development and operations teams to focus on innovation and fulfillment of the organizational mission.

EDUCATION

MS, Computer Science
East Tennessee State University
Year: 2009-2013
GPA: 3.7
Thesis: "A Comparison of Leading Database Storage Engines in support of Online Analytical Processing in an Open Source Environment."

BS, Computer Science
East Tennessee State University
Year: 2004-2008
GPA: 3.4

AS, Network Engineering
Hesser College
Year: 2001-2003
GPA: 3.4

ORGANIZATIONS

Association for Computing Machinery (ACM)

Institute of Electrical and Electronics Engineers (IEEE)

Multiple Local Technology User Group

Upsilon Pi Epsilon (UPE) - Computer Science Honor Society

PROFESSIONAL EXPERIENCE

Strata Information Group (SIG)   **Dec 2019 - Present**
The leading provider of Higher Education Technology Consulting services, acting as a trusted partner to over 700 post-secondary institutions globally.

Senior Consultant and Cloud Architect/Engineer
Responsible for Architecting, Engineering, and Implementing cloud technologies, specializing in IaaS and PaaS on AWS and Oracle Cloud, to optimize infrastructure, enhance reliability, harden system security, and ensure the efficient operation of applications and services.

- Spearheaded multiple high-profile migrations of HigherEd ERP systems to the cloud, impacting over 200,000 active students worldwide and resulting in cost savings of over $1M for several clients.
- Implemented [container-based workloads](#) using Docker, Kubernetes, AWS ECS, Prometheus, and related technologies.
- Deployed automation systems (Ansible, Puppet, CloudFormation, Terraform) through efficient CI/CD pipelines.
- Led the implementation, upgrade, security hardening, and modernization of ERP environments, focusing on Oracle and MySQL databases, Linux, and Windows Server Administration.
- Conducted complex technical planning, provided senior technical leadership, and collaborated with project management and business development teams to implement and monitor the progress of initiatives.

Accomplishments include:

- [Led the first deployment of an ERP System on Kubernetes](#) in the HigherEd industry. This improved application performance by 25%, reduced infrastructure costs by 60%, and impacted over 50,000 active students.
- Led the implementation and evolution of [SIG's cloud migration strategy](#), including establishing processes, tools, and techniques utilized by many teams.

GABRIEL TOCCI

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CERTIFICATIONS

AMAZON WEB SERVICES
Cloud Solutions Architect
Cloud Economics Accreditation
DevOps: Continuous Delivery and
Process Automation

ORACLE CLOUD
Cloud Solutions Architect
Cloud Security Specialist

KUBERNETES
Certified Kubernetes Application
Developer *(in-progress)*

TECHNICAL SKILLS

CLOUD TECHNOLOGY
Amazon Web Services (AWS)
Oracle Cloud (OCI)
Terraform
CloudFormation

CONTAINER TECHNOLOGY
Docker
Kubernetes
AWS ECS
Prometheus
Helm

ERP TECHNOLOGY

Linux	Git	Puppet
Oracle	Gitlab	Ruby
MySQL	Jenkins	
Ansible	Python	

MICROSOFT
AzureAD Integration
Windows Server and IIS
MS-SQL Server
.NET (C#)

EXPERIENCE continued

East Tennessee State University (ETSU)   Jan 2008 - Dec 2019
A prominent higher education institution with a mission of providing quality education and services to its 14,000 students and surrounding community.

Database Administrator/DevOps Engineer   Nov 2017 - Dec 2019
Responsible for the implementation, integration, security, modernization and maintenance of ERP systems. This includes managing databases, middleware servers, and backend infrastructure in both on-premises and AWS cloud environments.

- Spearheaded the optimization of functionality, security, performance, and accessibility across all university information systems, resulting in over $100k in annual cost reductions for the institution.
- Led in-house development operations, overseeing cloud infrastructure, source code repositories, continuous integration, application deployment, and driving improvements in the development process (DevOps).
- Demonstrated expertise in troubleshooting complex technical systems, specializing in database tuning and application performance tuning.
- As the most senior technical member of the team, I served as the final escalation point for intricate issues beyond the capability of other team members.

Accomplishments include:
- [First cloud migration of HigherEd ERP System to AWS](), resulting in lower long-term costs for institutions across the industry.
  - Set the standard for performing these migrations in HigherEd and met with AWS to educate AWS Professional services teams.
- [First deployment of ERP applications using Docker containers]() and DevOps Pipelines for continuous deployment. This improved application deployment time by 90% and reduced overall upgrade time by over 50%.
- Developed a toolset for automated management of ERP systems using modern code-based tools, allowing for more efficiency, and a reduction of manual changes by 90%.

Senior Software Engineer   Oct 2010 - Oct 2017
Led all student-related software projects, guiding the entire software development lifecycle from specification to maintenance.

- Developed several high-profile applications that improved student interaction with university processes (eg. recruiting, admission, registration, advising, graduation), impacting 15,000 students and 3000 students annually.
- Managed modifications and integrations to Ellucian Banner ERP, purchased systems, and in-house custom software.
- Directed the development of multiple concurrent software projects, including allocating programming staff.