Stephen Fields

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Professional Experience:

University of Tennessee, Office of Information Technology, Sept 2022 to Present

Software Analyst, September 2022 to Present
- Building custom web applications, reports, and batch programs that integrate with the Banner ERP system and other ancillary systems that support various university functional areas.
- Assisting other developers with documentation and analysis of current university applications regarding new ERP integration.
- Develop integrations to third-party API interfaces.

East Tennessee State University, Information Technology Services, Sept 2007 to September 2022

Web Developer, April 2016 to September 2022
- Develop and manage custom built web applications using modern open source and industry standard back-end technologies (PHP, Ruby, Node, .Net)
- Develop UIs using modern and classical front-end technologies (HTML5, CSS, JS, JQuery, ReactJS)
- Managing day-to-day operations of university CMS system
- Manage user roles, site configurations and upgrades within the university's CMS system
- Technical lead for university's mobile app
- Assistant technical lead for university's student form(s) application
- Assisted in building and deploying current university web template in XSL/XSLT for 650+ websites
- Migrated 650+ university web sites and data, using custom built ruby application to port data from the old to new university template
- Develop and manage daily and monthly backup processes for the university website using custom built ruby applications, APIs and AWS
- Assist in managing production and development web application servers for custom built applications
- Migrated websites from Windows to Linux server environment.

Key Achievements:
- Led migration of the university's mobile app from an external third-source vendor to an in-house developed and managed service, by rebuilding the university wide app using open-source app development technologies (React-Native, Node, Google Firebase).
- Manage the integration and maintenance of the mobile app into the Google Play and Apple store
- Implemented a real-time parking map (React) for on campus student parking using (ReactJS and Google Firebase)
- Developed and currently manage a tuition cost assessment calculator for student recruitment, sourcing multiple campus departments.

Information Systems Analyst II, September 2007 to April 2016
- Development, testing and maintenance of university-wide software applications and databases, in Unix and Windows environments
- Built batch programs to integrate into Ellucian's Banner ERP System to support various functional areas: Students, Financial Aid, HR, Finance
- Developed Banner reports for various functional areas using Oracle Discoverer and Evision's Argos reporting tools
- Provided support, training, and documentation for users of diverse backgrounds and skill levels

Key Achievements:
- Assisted in transitioning multiple departments' daily reporting from Oracle Discoverer to the Evision Argos reporting tool, by building custom SQL and PL/SQL scripts to migrate business logic
- Assisted in migrating the Financial Aid department's workflow into UC4 workflow system

Adjunct Instructor, Department of Computing, 2017-Present
- CSCI 4297/5927 – Human Computer Interaction
- CSCI 3020 – Advanced Database (Summer 2021)

Key Achievements:
  - Teach parallel CSCI 4927/5927 courses in Human Computer Interaction with an average student enrollment of 17 to 18 students per semester
  - Led an undergraduate honors student research committee addressing the impact of using **Fitts' Law within Modern VR paradigms**

Education:

East Tennessee State University – Johnson City, TN

2013, Master of Science, Computer and Information Science, GPA: 3.53
2007, Bachelor of Science, Computer and Information Science, GPA: 3.03

Tennessee Technological University - Cookeville, TN

2002, Bachelor of Science in Business Administration – Management Information Systems

Skills and Abilities

Database and Resource Management	MySQL/MariaDB, Ellucian Banner, Oracle, SQL Server
Related DB & Other Technology	Argos, Appworx/UC4, Ellucian Banner, Wordpress, Drupal, Modern Campus (CMS)
Cloud Technology:	AWS (EC2, S3, Cloudwatch, Route53, VPC, etc.)
Core Languages	C#, VB.Net, Ruby, PHP, XSL, XPath
Other Scripting	Bash/Shell, Ruby, Python, PL/SQL, T-SQL, Oracle SQL, Pro*C, C++
Server-Side Languages, Frameworks	ASP, ASP.Net, ASP.NET MVC, LINQ, PHP, Node
CMS Systems	Wordpress, Modern Campus
Web-Based Markup and Development	XHTML, HTML, XML, CSS, Javascript, JQuery, ReactJS, Node/Express, Ajax, REST Api's, JSON, SOAP, Datatables
Operating Systems	Windows Server, Unix/Linux (Ubuntu, CentOS)
System Administration	Apache, NGIX, IIS, Tomcat
Version/Change Management	Bitbucket, GIT, TFS
Personal Traits	Learns and adapts quickly, methodically detailed

Soft Skills:
- Ability to prioritize heavy workloads.
- Experience working with teams from several business areas to facilitate an orderly execution of a proposed project plans
- Ability to explain, both orally and in writing, technical processes and information to non-technical personnel, as well as non-technical processes in a technical manner to developers and engineers
- Ability to enhance and promote teamwork, relationships, communication and problem-solving.