

## Christian Cox

Tel: (504) 756-1911 | Email: dev-christian@outlook.com

### PROFESSIONAL EXPERIENCE

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#### IBM

**Baton Rouge, LA**  
**2022 – Present**

##### Software Developer

Full-stack developer for an assortment of Federal Emergency Management Agency (FEMA) applications including the National Risk Index (NRI), Mapping Information Platform (MIP), Hazus Loss Library (HLL), and other internal applications. All application changes were required to be peer reviewed, presented and demonstrated to product owners, and managed using Git and Gitlab.

##### Hazus Loss Library (Django, Python, JavaScript, JQuery, React, MUI)

- Increased user upload speeds by over 20% through the implementation of multi-part uploads and chunking
- Modernized user uploads by adding manual and automatic resume functionality reducing system upload failures by ~99%
- Performed software upgrades for React and multiple dependencies by updating over 80% of the codebase to assist with the transition from on-premise servers to AWS Cloud

##### National Risk Index (.NET, C#, JavaScript, JQuery, Dojo)

- Designed and implemented a feature to display messages and alerts to users in real-time from a central communications API
- Implemented 50+ UI updates for the web and mobile view and customized Esri GIS widgets to match evolving business requirements

##### Mapping Information Platform (Apache Struts, Java, JavaScript, JQuery, SQL, SAP Crystal Reports)

- Redesigned KPI calculations used to monitor civil engineer workflows by resolving a 10+ year old defect and increased KPI calculation speeds by ~50%
- Updated official government documents using SAP Crystal Reports and personal python scripts

##### Security

- Resolved thousands of security vulnerabilities such as cross-site scripting, SQL injection, poor data sanitization, and insecure file configurations

#### STEPHENSON DISASTER MANAGEMENT INSTITUTE

**Baton Rouge, LA**  
**2021 – 2022**

##### Technical Support Agent & Software Developer

- Developed web pages using C# and SQL within a .NET MVC application to display and sort water quality data for the Louisiana Department of Environmental Quality
- Assisted COVID-19 contact tracers by supplying data using Salesforce and updating COVID-19 infection cases every 4 hours
- Resolved hundreds of technical support tickets for system and user-related issues

### SKILLS & CERTIFICATIONS

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- AWS Certified Developer – Associate, Amazon Web Services (AWS), December 2024
- Microsoft Certified: Azure Fundamentals, Microsoft, June 2023

**Programming Languages:** Java, C#, Python, JavaScript, SQL, CSS, HTML

**Frameworks and Libraries:** .NET, React, Django, Angular, Apache Struts, JQuery, MUI

**Tools and Platforms:** Git, Gitlab, AWS, Kibana, Fortify Security Center, SAP Crystal Reports, Mural

**Databases:** MSSQL, PostgreSQL, MySQL, MongoDB, IBM DB2

### EDUCATION

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**Louisiana State University**

**Bachelor of Science, Computer Science, Concentration in Software Engineering**

**Baton Rouge, LA**  
**2022**