EVAN (KRIS) KIRKSEY

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SUMMARY

- **Multi-disciplined engineer specializing in software engineering, with close to 10 years of experience designing, developing, and delivering high quality solutions to customers**
- **Experienced with a variety of programming languages, including Java, C, C++, SQL and Python as well as web development technologies such as C#, HTML, CSS, and Javascript**
- **Solid background in performing and presenting large scale data analysis in a variety of science and technology settings**
- **Strong technical writing and communication skills**
- **Effective organizational skills and task management**
- **Certified AWS Practitioner**

EXPERIENCE

Battery Systems Engineer | Aurora Flight Sciences | Manassas, VA
November 2021 - Present

- **Architecting low voltage power distribution system for retrofitted hybrid electric aircraft.**
- **Designing power distribution LRUs to provide subsystems with sufficient power for operation as well as fault protection.**
- **Carrying out FMECA analysis to ensure all possible safety critical scenarios that may arise during flight tests are captured and mitigating actions are identified.**
- **Writing Python scripts using pandas and matplotlib packages to perform analysis on and generate graphs from large datasets gathered during electrical tests.**
- **Conducting trade studies and working with manufacturers during selection of electrical devices and components used in power distribution.**
- **Supervised a summer Battery System Engineer intern and helped guide work performed on battery annunciation system project.**

Web Developer | Universal Consulting Services | Fairfax, VA
June 2012 – November 2021

- **Performed front- and back- end development for contract finance analysis web application using ASP.NET Framework.**
    - **Developed front-end UI using C#, Javascript, HTML, and CSS.**
    - **Architected back-end by building database schema in MS SQL Server Management Studio. Created stored procedures to pull data from database.**
    - **Built a dynamic reporting service using SQL Server Reporting Services and linking report field to stored procedures.**
- **Designed, implemented, tested, and maintained Java and C based integration services using webMethods Designer Suite and ETI generated C packages.**
- **Developed test scripts and conducted tests on code packages in test integration environments to ensure that requirements are met and that solutions operate properly in government production environments.**
- **Maintained virtual test environment servers and test databases, ensured all environments were compliant with applicable government and DoD standards.**

EDUCATION

George Washington University / MS Chemistry
January 2019 - November 2021

- **Research Area: Synthesis, Characterization, and Optimization of Graphite Electrodes for Lithium-Ion Batteries**

Johns Hopkins University / MSE Materials Science and Engineering
September 2016 - May 2018

- **Thesis: "Analysis of Electrical Properties of the P3HT-Bi$_2$Te$_3$ Interface for Polymer-Inorganic Composite Modeling"**

University of Virginia / BS Computer Science and Engineering, BS Economics
August 2007 - May 2012

- **Thesis: "Design and Optimization of a Five Stage Multiscale Multiprocessor"**

SKILLS

- **Software/Web Development**
- **Java**
- **Python**
- **C**
- **C#**
- **C++**
- **.NET**

- **Relational Database Management**
- **SQL (MS SQL Server, MySQL)**
- **HTML**
- **XML**
- **AWS**
- **Aerospace Engineering**
- **Electrical Power Systems**