Morgan Clark

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Work Experience

Full Stack Developer

SearchLight Software - San Francisco, CA
December 2017 to Present

SearchLight is my own startup focused on creating unique customer experiences in the web application space.

• Built a travel site for booking adventure destinations. The site is built on a Flask framework using the Python language and a PostgreSQL database. Used the SQLAlchemy framework to access the database efficiently and GitHub for version control.
• Used HTML, CSS and Javascript extensively on the frontend to create a unique customer experience. The site is currently in the process of a soft launch.
• Built a configuration analysis tool to increase the efficiency and error rate reduction for configuration changes to an enterprise platform. Built using Python and Flask with the Pandas library to analyze the configuration data. Built in a formal Model-View-Controller pattern.

Application Engineer

U.S. Bank - San Francisco, CA
October 2018 to December 2019

US Bank is the fifth largest bank in the United States. Systems developer on the risk management technology team.

• Created models in a rules based engine to calculate complex risk scoring and workflows.
• Implemented enhancements with HTML, CSS and JavaScript to improve the usability of workflow screens.
• Developed solid technical documentation for a formalized Agile process, including unit test cases and deployment checklists.

Technical Lead

First Republic Bank - San Francisco, CA
September 2013 to November 2017

First Republic Bank is a large American bank known for delivering exceptional, relationship-based services supported by a leading edge technology stack to offer a full range of banking products.

• Lead developer on a team of three developers building out the bank's enterprise risk scoring model across multiple applications.
• Architected the role-based access control model for the platform and integrated it with Active Directory.

• Created complex SQL queries for data feeds to fulfil requirements such as populating the platform with the organizational hierarchy and pre-populating forms for workflows.
• Functioned as the technical project manager coordinating multiple development streams and maintaining development quality.
• Formalized from scratch a rigorous ITIL compliant Agile process for a team of 15 to deliver a two-year strategic plan for the platform to meet the significantly increased regulatory scrutiny that comes with becoming a large bank. This included more than 30 production deployments.
• Utilized HTML, CSS and JavaScript to improve end-user usability by creating dashboards and forms with customizations such as custom banners and menus.

Application Engineer / Cybersecurity Analyst
U.S. Department of Energy, Office of Cybersecurity - Washington, DC
January 2010 to August 2013

The Office of Cybersecurity addresses cyber threats to the nation's investments into advanced energy research and maintenance of the nuclear weapons arsenal.

• Architected and built the first deployment of the risk platform to support reporting of departmental cyber vulnerabilities to Department of Homeland Security.
• Implemented a complex access model at the application level for reporting top-secret security information.
• Customized application form and logic rule engines to meet the unique hierarchy and business process requirements of one of the largest government agencies.
• Conducted a thorough security review and configuration hardening of the platform according to industry standards, NIST 800-53 Security Controls for Federal Information Systems.
• Built an MS Access frontend dashboard that utilized complex SQL queries to provide point-and-click budget reporting with adjustable parameters.
• This included architecting a database schema that mapped correctly to a complicated cybersecurity budget and SQL queries that could be adapted to a constantly changing budget.

Research Associate
National Academy of Public Administration - Washington, DC
September 2006 to January 2010

The Academy is an organization chartered by Congress to improve governance at Federal agencies by conducting analytical studies on problematic areas of management.

• Analyzed the results of client interviews in areas such as budgeting, contract acquisitions, project management and human capital.
• Researched industry best practices and agency policies for benchmarking management change recommendations.
• Agencies I worked with include the Department of Energy, Coast Guard and National Park Service as well as information gathering meetings with the majority of the other Federal agencies.
• Wrote case studies on how agencies can better utilize collaborative "Web 2.0" technologies such as social media and wikis to improve delivery of services to their constituencies.

Research Analyst
Hart Research Associates - Washington, DC
September 2005 to September 2006

Analyzed and aggregated market research results, polling and focus groups, for Fortune 500 companies such as NBC, Boeing, Coca-Cola and IBM.

Education

Bachelor's of Science in Economics and Public Policy
Duke University - Durham, NC
2000 to 2004

Skills

- HTML5
- JavaScript
- CSS
- Git

Links

https://github.com/mkclark

https://www.linkedin.com/in/morgan-clark-b06754161