SEAN MCQUAY
PROGRAMMER / ENGINEER

PROFILE

I have a passion for all things data. I strive to consume and analyze everything around me in the pursuit of driving swift and accurate decisions and uncovering the unknown. Only once you have all the data can you truly understand what it was you were looking for.
I love to diversify my knowledge by understanding as many fields of study as possible. This is critical to fully understanding the world around us.

Dallas, TX

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PROFESSIONAL SKILLS

What makes me great isn't the languages I know or the tools I use, but my attention to details that matter. My goal, as always, is to develop an elegant solution with which to provide the user a coherent, information-rich experience – ensuring a beautifully-designed and pleasant-to-navigate application which serves to bolster conversion rates and retain the current user base.

LANGUAGES

English
Spanish
Finnish
Russian

EDUCATION

Missouri University of Science and Technology: 2008 – 2014
Electrical Engineering, B.S.
Spanish Language, Minor

Universidad Politécnica de Madrid: 2011 – 2012
Electrical Engineering, ERASMUS

EXPERIENCE

Securus Technologies: December 2016 – Current
UI Engineer / Front-End Developer

I currently function as a UI engineer / front-end developer – designing and wrapping skins around Java applications hosted within our content management system, Liferay. I leverage HTML, CSS, JavaScript/jQuery along with frameworks such as Flexbox and Bootstrap and tools such as Photoshop, Illustrator, Sketch, and Axure to materialize great projects. My typical day is filled not only with designing and implementing new features, but also assessing and providing an actionable path of improvement opportunities for those features currently deployed.

Luminant Energy: August 2015 – October 2016
Electrical Engineer / Developer – Power Optimization Center

I provided the team role of data analyst - leading a reformation in how our team approached big data, providing valuable insight into business operations, developing statistical models to assess equipment health and predict operational difficulties, and solving our everyday challenges with the aid of VBA, Ruby, and R. Findings derived from this analytical review were then combined with my unique knowledge to provide comprehensible context. I then directly presented this "actionable intelligence" to Luminant's internal stakeholders.
Additional responsibilities included real-time monitoring of plant-wide mechanical and electrical assets across multiple fleets at varied generating stations, use of multi-variable advanced pattern recognition software in predictive maintenance applications, issue investigation, population and support of procedures, and research into new monitoring perspectives.

Luminant Energy: June 2014 – July 2015
Electrical Engineer – Fossil Engineering and Support

As an electrical engineer within this team I was responsible for generating construction / demolition packages, the creation and revision of fleet-wide guidelines and procedures, root cause analysis, and engineering support to the fossil-fueled fleet of generating stations. This team gave me strong experience in project planning and coordination - working to coordinate projects across both internal and external teams among vendors and engineers.

Luminant Energy: May 2013 – August 2013
Plant Engineer – Big Brown SES

As a Plant Engineer (intern), working at coal-fired generating station, I was responsible for predictive maintenance of plant components, engineering support to Luminant's southern region power generating stations, and the development and management of capital projects.

ACCOMPLISHMENTS

ISO III – Vibration Analysis
Precision Machine Balancing
Beta Sigma Psi - Lutheran Fraternity
FIRST Robotics – Team Mentor