

Scott M. Curtis

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SKILLS

Languages and Frameworks: Python (Flask), JavaScript (React), Bash, SQL, HTML, CSS

Cloud: Amazon Web Services - EC2, IAM, S3, CodeCommit, ELB, VPC, CodePipeline, ECS, ECR

Deployment: Docker, Terraform, Git

SOFTWARE PROJECTS

EE Toolkit: *Electrical engineering calculators and reference tables.*

- Developed web app using React and Flask to aid with basic power electrical engineering calculations.
- Configured and provisioned EC2 instance to host backend server and MySQL database.

Sudoku Solver: *Sudoku app using JavaScript and HTML*

- Created sudoku game and solver which uses recursive backtracking algorithm to solve or generate sudoku boards with a simple HTML user interface.

CI/CD Pipeline with AWS

- Generated CI/CD pipeline using 2 AWS Pipelines which leveraged GitHub and ECR as repositories and ECS for deployment, allowing for continuous integration and deployment for new code and features.
- Architected virtual private cloud on the AWS platform, including configuration of public and private subnets, route tables, and network access control lists.

WORK EXPERIENCE

Arcadis

Electrical Engineer, Water

White Plains, NY

May 2017 – Present

- Modeled electrical distribution systems using power system analysis tool SKM to perform load flow, short circuit, relay coordination, and arc-flash studies to ensure system reliability and mitigate hazards.
- Drafted plan drawings, one-line diagrams, front views, control diagrams, block diagrams, and details using AutoCAD MEP which provided clients with a complete bid ready design that contractors constructed.
- Prepared and evaluated cost estimates for electrical materials including cables, conduit, enclosures, transformers, disconnects, panelboards, and labor for budget and project planning.
- Conducted site visits and discussed project requirements with clients to identify and address project specific challenges which resulted in meeting client and project expectations.
- Reviewed electrical distribution and plan designs, specifications, and equipment submittals for QA/QC to ensure overall design completeness and to provide design services during construction.

AECOM

Electrical Engineer IV, Power

Princeton, NJ

June 2012 – May 2017

- Conducted Factory Acceptance Tests at manufacturer facilities to test equipment racks, and software configuration settings prior to field installation and deployment.
- Authored specifications for electrical equipment including substation control houses, motor control centers, switchgear, and power distribution centers so provided equipment meets project requirements.

CERTIFICATIONS & LICENSES

- AWS Certified Solutions Architect – Associate February 2020 – February 2023
- Licensed Professional Engineer – NJ August 2018 – April 2022

EDUCATION

Stevens Institute of Technology – Hoboken NJ

Bachelor of Engineering in Electrical Engineering, GPA: 3.58 / 4.0

May 2012

INTERESTS

3D Printing, Electronics, Amateur Radio (Callsign: KC2VKF), DIY Projects, Ocarina, Gaming