Sangwoo (Sean) Nam

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Experience

Ivy Energy - Chief Technology Officer
November 2022 – Present

Successfully transitioned from legacy codebase to newly architected modular codebase.
Managed outsourced project to integrate with the RealPage, enabling automation and synergy.
Continued to build out the engineering org, establishing multiple product-oriented development teams.
Established the data science team, conducting over 100 interviews for data scientist and data analyst roles.
Spearheaded data strategy by establishing a data warehouse, data catalog, and BI tool.
Lead the efforts to transition from being sales oriented & reactive to a proactive, product/software focused.
Collaborated with VP of Engineering and VP of Product to create and manage the Product Roadmap.
Collaborated with VP of Engineering to improve engineering teams' velocity.
Oversaw security and compliance policy implementations to move towards SOC2 compliance.
Oversaw the transition from EC2 instances to Kubernetes, matured our AWS cloud settings and infrastructure.
Led the efforts to bring standardization, organization, and data-driven culture across the company.
Managed budget for entire Technology org, including Product, Engineering, Data, and IT/Security departments.

Ivy Energy - Head of Engineering
November 2020 – November 2022

Lead effort to migrate codebase from a C++/PHP MVP to a more modern stack using Python, node.js, and React.
Designed and implemented CI/CD pipeline using Github Actions and AWS CodeDeploy.
Evaluated and improved engineering team's efficiency and productivity using key metrics such as DORA.
Supported IT Ops team in designing and executing security, disaster recovery plans, establishing a security ethos.
Created broader architecture framework to integrate multiple new planned product offerings.
Conducted over 200+ interviews to expand the core engineering team and auxiliary teams (data scientists & devops).
Onboarded six engineers, PM, and one intern, teaching them about the product, codebase, and technologies used.
Implemented the proprietary virtual grid solar distribution algorithm, key to the business' USP.
Spearheaded the engineering effort to build a revenue verification program used to secure new clients.
Oversaw three engineers as they incorporated a new billing schema to support client needs.
Supervised outsourced project to integrate two APIs to sync meters and meter readings into our system.

Ivy Energy - Software Engineer
January 2020 – November 2020

Developed Admin portal to view and interact with MySQL database and C++ backend using PHP.
Integrated AWS Simple Queue Service to send work messages to C++ backend server.
Created an event scheduler using AWS CloudWatch and AWS Lambda Functions to manage custom events.
Built system to generate PDFs with dynamic content and designs using HTML, CSS, PHP, DomPDF, JpGraph.
Wrote Python scripts for managing EC instances and mounting EFS storage on boot up.
Integrated with SendGrid and Mailchimp APIs using cURL to send emails with dynamic content.
Built a custom mail delivery system from scratch by integrating directly with Google's Gmail SMTP servers.
Developed a new billing schema and PDF templates to support commercial clients.

Republic of Korea Air Force - Software Engineer
February 2015 - June 2016

Improved security of Java web apps by implementing interoperable encryption between server & client.
Increased security of SSO by adding common user login management features from scratch.
Developed backend management site for SSO to utilize security features, view data from Oracle SQL DB.
Created backend admin panel for new survey app with image uploading, dept/user management.

Education

UC San Diego, Bachelors of Science, Computer Science
September 2016 - December 2019