Sangwoo (Sean) Nam

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Education

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

Experience

Ivy Energy - Senior Software Architect   *November 2020 – Present*

Supervised outsourced project to integrate two APIs to sync meters and meter readings into our system.
Onboarded three engineers 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.
Developed a new billing schema and PDF templates to support commercial clients.
Oversaw the three engineers as they incorporated a new billing schema to support client needs.
Spearheaded the engineering effort to build a an revenue verification program used to secure new clients.

Ivy Energy - Software Engineer   *January 2020 – Present*

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.

CodePath University - iOS Tutor   *January 2018 – May 2018*

Presented iOS/Swift concepts (optionals, delegates, protocols) to class of 30 students.
Answered students' questions in class & held 1-on-1 office hours to clarify concepts.
Created Twitter client using OAuth for login, Twitter API to post, view, and like tweets.
Developed Yelp app with infinite scroll search results, dynamically sized table rows (AutoLayout).

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.

Skills/Qualifications

Honors:	Military Award, Armed Forces Communication Command (Korea)
Languages:	C, C++, Objective-C, Java, C#, Swift, Python, HTML, CSS, JavaScript, PHP
Frameworks & Libraries:	jQuery, Node.js, Express, Flutter, React, React Native, SnapKit
Protocols/Technologies:	OAUTH1/2, HTTP[S], JSON, XML, OpenSSL, REST API's, MVC patterns
Databases:	MySQL, Oracle SQL, MongoDB, Realm, NoSQL, Amazon DynamoDB
DevOps:	Git, Travis-CI, Code Climate, Docker
Cloud Services:	AWS, Google Cloud
Third Party Services & APIs:	IBM Watson, Twitter, Yelp, Twilio, Mailchimp, SendGrid, Lob