

# DAVID BREWIN-HALL

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## OBJECTIVE

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Leverage my experience, talent, and leadership skills to deliver compelling software products and solutions to exceed business requirements and promote growth and productivity.

## PROFESSIONAL EXPERIENCE

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### Software Engineer III / Tech Lead

Forcepoint, LLC

July '18 – June '20

Assumed the role of senior tech lead for an energetic team of developers to design, deliver, and maintain core services built on the AWS platform for Forcepoint's Dynamic Edge Protection software.

- Provided technology leadership, insight, and review for team developing solid, fault-tolerant solutions to support deployment and configuration of Forcepoint's explicit proxy solution for its Dynamic Edge Protection product
- Collaborated with other developers to design, implement, and maintain several key services following a microservice architecture in Python and NodeJS atop the AWS platform, managed with the Serverless and Terraform frameworks
- Leveraging Agile Methodologies, planned implementation of features with tech leads and product owners to provide quality, timely, and value-added solutions from inception to delivery
- Worked closely with front-end developers to connect React components to backend AWS infrastructure that included AWS Lambda, Cognito, and DynamoDB services through REST and GraphQL interfaces
- Integrated Okta SaaS with Forcepoint's DEP frontend and the AWS Cognito backend service to provide secure, easy logon capabilities for tech support users, laying the groundwork for future integration of client SSO solutions
- Worked as a primary contributor in updating and hardening of Forcepoint's CASB software solution to become FIPS-140 compliant using SafeLogic's CryptoComply library for use in government cloud solutions

### Software Engineer II

Forcepoint, LLC

Jan. '16 – July '18

Developed key components of Forcepoint's Web Security solution using core Java technologies, assuming additional responsibilities of improving and updating UI interfaces, maintaining the installer, and building upon robust SIEM integration technology.

- Enhanced and maintained Forcepoint's fault-tolerant SIEM solution utilizing Apache Kafka and Zookeeper libraries
- Constructed front-end interfaces as part of Forcepoint's Web Security reporting solution using ExtJS, communicating with a Java backend that used a REST interface to communicate with a MySQL database
- Built new and maintained existing frontend and backend services using core Java technology, leveraging well-established tools such as the Spring framework alongside BouncyCastle and Apache libraries

### Software Developer

Asset Science, LLC

Sept. '13 – Nov. '15

Designed and developed core components for the flagship product Re-Cell Suite™, utilizing Java technology to provide user interaction, concurrent device communications, and the collection and transmission of data to Asset Science servers for analytics.

- Designed, developed, and implemented key features to provide new enhancements and additional customer-driven features on a regular schedule
- Co-developed the Diagnostics component of the Re-Cell Suite™ version 2.0 software leveraging legacy knowledge of the existing system and expected process flow
- Worked closely with QA team through the development process to ensure software functionality, stability, and usability
- Developed under the Agile methodology to promote iterative design and increase frequency of deliverable products

## Software Developer

Vision Scape Interactive (Heavy Water)

Jan. '11 – Dec. '12

Delivered over a dozen high-visibility projects for Sony PlayStation® Home on the PlayStation 3 platform. As a key developer for Heavy Water, projects included the creation of engaging experiences for Sony Computer Entertainment, Disney, Ford, Toyota, and others. Led the design, architecture, and implementation of systems for this complex digital content, pushing the boundaries of the PS3-based online game engine with innovative solutions and out-of-the-box thinking.

## IT Lead

Vision Scape Interactive (Heavy Water)

Jan. '10 – Jan. '11

Upgraded existing workgroup network to domain-centric model, adding policy enforcement and increasing security while maintaining on-site hardware and software as required to ensure a stable, fault-tolerant infrastructure for business and developer operations.

## Assistant Network Operations Center Manager

American Internet Services

Oct. '08 – Jan. '10

As second shift NOC assistant manager at American Internet Services, a premiere colocation and hosting provider in the San Diego region, led a team of NOC engineers in the monitoring, maintenance and overall management of data center services supporting its clients, including Fortune 500 companies.

## Student Computer Lab Technician

Palomar College

Oct. '07 – Oct. '09

## EDUCATION

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### National University

San Diego, California

*Bachelor of Science in Information Systems*

Jan. '15

Magna Cum Laude; Cumulative GPA 3.717

### Palomar College

San Marcos, California

*Associates of Arts in General Studies*

Dec. '06

## SKILLS AND EXPERTISE

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**LANGUAGES:** JAVA, PYTHON, JAVASCRIPT (NODEJS), REACT, EXTJS, HTML/CSS, C#, C++, LUA

**LANGUAGE FAMILIARITY:** GROOVY, POWERSHELL, BASH, MYSQL

**TECHNOLOGIES:** AWS (LAMBDA, STEP FUNCTIONS, DYNAMODB, EC2, COGNITO, IAM, CLOUDFRONT), JENKINS, OKTA, REST, APACHE, MAVEN, TERRAFORM, SERVERLESS

**VERSION CONTROL:** GIT (+ SOURCE TREE), PERFORCE

**TOOLS:** INTELLIJ, VISUAL STUDIO, ECLIPSE

**DEVELOPMENT:** OBJECT-ORIENTED PROGRAMMING, DESIGN PATTERNS, UML, SDLC

**PROJECT MANAGEMENT:** AGILE METHODOLOGY, SCRUM FRAMEWORK, JIRA, CONFLUENCE, MS VISIO