# Astrid Gao

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## Work Experience

## Alliant Insurance Services, Inc.

August 2023 – Current

Senior Software Engineer

Seattle, WA

Work on the Voluntary Benefits team, which provides a centralized benefit hub to enhance employee benefits offerings, benefit strategy, plan design, and vendor management.

- Led the back-end development of new Voluntary Benefits websites using .NET, TypeScript, Angular, and Azure for high-profile corporate clients, creating applications that served 720k potential users and generated \$58 million annual premiums.
- Re-engineered the platform's logging system by deploying a scalable solution with Azure Event Hubs, Azure
   Monitor, and Azure Log Analytics, increasing log processing capacity by 300%. This enabled real-time analysis of
   over 10GB of daily log data, improved system diagnostics, and reduced average issue resolution time by 70%.
- Consolidated authentication workflows of 17 internal systems into a centralized console using **SAML2**, and developed **Single Sign-On** capabilities powered by **OKTA OAuth/OIDC**. This optimization streamlined login processes for **3k DAU**, reduced security-related maintenance efforts by **90%**, and significantly mitigated security concerns.
- Participated in developing a chatbot integrated with **OpenAI REST APIs**, **Azure Functions**, **Cosmos DB**, and **Microsoft Bot Framework**, to analyze over **500** benefit offerings on our platform. The chatbot provided personalized recommendations, increasing customer engagement by **50%** and streamlining the inquiry process.

DocuSign, Inc. April 2022 – August 2023

Software Engineer

Seattle, WA

Worked on the Data Center Automation team, managing the DCAuto console for deployments and jobs. Focused on optimizing deployment and patching processes across the entire infrastructure to scale and streamline company-wide operations.

- Enhanced the Continuous Deployment pipeline using GitHub REST APIs, PowerShell scripting, and Kusto Query Language, reducing deployment rollback time by 70%. This improvement increased monitoring capabilities, and enabled real-time analytics, leading to faster issue resolution and improved system reliability.
- Spearheaded the upgrade of the **Health Alert** System with C# and **JavaScript**, decreasing failed detection of devices with low disk space by 80% and automating cleanup for over 1200 devices daily. This enhancement reduced deployment downtime by 20% and introduced real-time reporting, enabling proactive maintenance and improving operational efficiency across infrastructure and DevOps teams.
- Migrated artifacts from legacy repositories to JFrog Artifactory, consolidating resources and reducing storage costs by 20%, while improving artifacts retrieval time by 40%. This migration improved build efficiency, reduced deployment time, and strengthened software delivery pipeline.
- Took regular on-call rotations for high-severity incidents, promptly resolving critical customer issues and maintaining uninterrupted service for **hundred-thousands** of deployments/jobs. Ensured a **99.99% system up-time**, supporting seamless operations and customer satisfaction.

### Alliant Insurance Services, Inc.

July 2020 – April 2022

NYC, NY

 $Software\ Engineer$ 

Worked on the Executive Benefits team, which provides a centralized hub for corporate executives to enroll in Life Insurance and Liability Insurance programs, streamlining the enrollment process and improving accessibility.

- Led key security initiatives to enhance application security, including implementing Penetration Test Remediation Solutions, reducing vulnerabilities by 60%, Data Masking in non-production environments to protect over 50 million sensitive records, and deploying Source Code Analyzer tools that enforced best practices across entire code base, safeguarding critical information.
- Generated and analyzed data reports from over 15 million records, conducted data migrations across databases, and
  performed error analysis using SQL Server, T-SQL, PowerBI, and the Google Analytics Reporting API, leading to a
  15% reduction in data discrepancies and enabling more accurate business insights.

#### TECHNICAL SKILLS

Skills and Competencies: C#/Java, TypeScript/JavaScript, Python, C/C++, .NET, PowerShell, Spring, React.js, Angular, Django, Flask, CI/CD, Git, SQL Server, MySQL, Kusto Query, MongoDB, IOS Development, Azure Tools, AWS

### **EDUCATION**