

# Yangsoo Song

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## WORK EXPERIENCE

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**Abiomed**, Danvers, MA

Aug '20 – present

### Software Engineer II

- Architected, led, developed, tested, and deployed a SOC 2 type-compliant audit logging solution, resulting in significant monthly cost savings of \$10,000 (Enhanced query efficiency and maximized Azure resource utilization, surpassing the capabilities of the legacy logging system)
- Design software for analysis using aggregated data to enhance product performance
- Develop intricate algorithms for validating AI model predicting arterial pressures in patients
- Contribute to architecture, design, development, and maintenance of IoT Cloud Solution to support multiple medical devices
- Boosted code coverage by 40% in new prediction project, successfully achieving near 95% target coverage

### Software Engineer I

- Achieved 30% code volume reduction via refactoring with improved readability, reusability, and design pattern implementation
- Consolidated API endpoints to prevent human errors, eliminate duplicates, and enhance usability, resulting in a 15% reduction in testing time and decreased development time
- Support clinicians with a cloud web portal to monitor device performance and automated critical patient event alerts. (utilized in over 600 hospitals in US, Japan, and EU)
- Acquired expertise in building cloud-based platforms on Azure using .NET Core (C#), MVC, AngularJS, Kubernetes, Git/GitLab, and Docker, among other cutting-edge technologies

**Eastern Analytics**, Norwell, MA

Apr '20 – Aug '20

### Data Engineer

- Designed and executed dataflows and pipelines, integrating diverse data sources (Amazon, Shopify, Google, etc.) using SQL Server, Azure Data factory, blob storage and SSIS Packages
- Streamlined client data access by performing data modeling, testing, and developing efficient data pipelines (ETL) using Azure DevOps, Data Factory, Blob Storage, and storage accounts

**The Widernet Project**, Durham, NC

Apr '20 – Aug '20

### Software Developer

- Collaborated with WiderNet's programming team to enhance the Egranary Digital Library—a valuable offline web collection designed for individuals in developing countries without internet access
- Conducted thorough testing of the existing stack (CIP Editor) to ensure compatibility with PHP 7 and Java. Successfully modified the codebase to accommodate the required changes

**Harbourvest Partners**, Boston, MA

Jul '18 – Dec '18

### Software Engineer

- Demonstrated proficiency in developing and optimizing stored procedures, tables, and VS tests using SQL Server, Visual Studio (C#), and LINQ to SQL for the data conversion project
- Continuously enhanced and improved the existing codebase to ensure optimal performance
- Developed a TSQL stored procedure for an innovative address parsing utility, efficiently calling the Google Geocoding API; This transformative solution improved performance, reliability, and reduced code volume by 80%

## SKILLS / PROJECTS

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Languages: Java, C#, Python, JavaScript, Elixir, SQL, HTML, CSS

Software: Docker, Kubernetes, Jenkins, Git, Azure, MSSQL, .Net, Visual Studio, Vim

## EDUCATION

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**Harvard University, Extension School**, Cambridge, MA

Jun '22 – present

*Master of Liberal Arts in Computer Science*

**Northeastern University**, Boston, MA

Dec '19

**Khoury College of Computer and Information Science**

*Bachelor of Arts in Computer Science, Minor in International Affairs*