

# Minyoung Choi

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## RELEVANT WORK EXPERIENCE

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- **Core EngProd** Sunnyvale, CA  
Software Development Engineer Feb 2022 – Present
- **AWS Health AI / HealthLake** Bay Area, CA/Seattle, WA  
Software Development Engineer Mar 2021 – Feb 2022
  - Updated and integrated a Java Fast Healthcare Interoperability Resources (FHIR) resource validation library into customer data ingestion workflows
  - Developed and maintained the JavaScript/TypeScript React-based AWS web console for the service, including setting up service dashboards, canaries, metrics, and alarms
  - Integrated service with CloudFormation, including dashboards, canaries, metrics, and alarms, allowing customers to use CloudFormation to create and manage Healthlake resources with AWS infrastructure
- **Amazon Alexa** East Palo Alto, CA  
Software Development Engineer Dec 2018 – Mar 2021
  - Internationalized an Alexa Shopping notification feature in Java to support non-US marketplaces, enabling its launch in APAC and EMEA marketplaces, an expanded its availability using AWS infrastructure
  - Added localization support to the feature, enabling customer interactions in their preferred language
  - Designed and implemented a CX flow system in an interactive Alexa Skill, allowing for a more dynamic and natural customer experience
  - Created a D3.js visualization tool to allow the team to track and analyze customer interaction flows
  - Set up and maintained test suites and infrastructure to enable automated testing in different regions and languages
  - Wrote automated business intelligence queries and reports
  - Provided away-team development work and knowledge transfers as needed to accomplish tasks
- **Helix** San Carlos, CA  
Software Engineer Apr 2017 – Dec 2018
  - Developed a scientific knowledgebase enabling the internal science team to track research progress with business partners, validate their evidence, and codify the validation process
  - Created a ReactJS frontend to interact with the Python Flask and PostgreSQL backend of the knowledgebase
  - Converted legacy form-based endpoints to RESTful API service endpoints, allowing for interoperability with software and tools written by other teams within the company
  - Set up a Neo4J graph database containing a custom ontology of electronic health record and phenotype data
  - Increased test coverage for all newly written code from a baseline 40% to a minimum of 90%
- **Stanford School of Medicine** Cherry Lab, Palo Alto, CA  
Software Engineer Jul 2015 – Mar 2017
  - Developed the ClinGen Curation Interface, a browser-based tool that allows scientists and healthcare professionals to collect and share clinical data related to genetics-driven diseases
  - Developed major portions of the ReactJS and SCSS frontend based on user workflows and mockups
  - Customized the Pyramid and Elasticsearch backend to suit organizational authentication, authorization, and search needs
  - Designed JSON-based data storage schemas for storing curated metadata in a structured format
  - Wrote and maintained selenium frontend and pytest backend tests
- **Affymetrix** Santa Clara, CA  
Bioinformatics Services Engineer Jun 2013 – Jul 2015
- **University of California, Davis** Neale Lab, Davis, CA  
Bioinformatics Programmer Jul 2007 - Jul 2010

## EDUCATION

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- **Georgetown School of Medicine** Washington, DC  
Special Master's Program – No Degree 2010 – 2011
  - Thesis: Use of Induced Pluripotent Cells for the Treatment of Parkinson's Disease
- **University of California, Davis** Davis, CA  
B.S. in Biotechnology, Minor in Neuroscience 2005 – 2009
  - Honor's Thesis: Pyrolysis-MBMS association study of known peaks related to biofuel-related traits