

# Daniel Youngmin Hong

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## Professional Experience

**First Databank**, Hearst Corporation, Remote  
*Advanced Software Engineer*

*Jan 2023 to Nov 2025*

- Designed a web application that bridges structured clinical data with natural-language interfaces, using custom Python-based, LLM-driven workflows to ingest medical data and enable clinical and pharmaceutical professionals to receive accurate, patient-specific medication insights through an AI-assisted interface.
- Implemented REST-based APIs and microservices to provide external clinical decision support to healthcare providers for prospective medication orders based on scientific literature and health metrics.
- Collaborated with hospital partners to ensure our tech solutions aligned with their workflows and needs, translating code into real-world impact.
- Configured a CI/CD pipeline to automatically build applications in a Docker container and deploy them to Amazon Web Services, triggered upon completion of the internal code review process.

**Research Corporation of the University of Hawai'i**, NOAA, Honolulu, HI  
*Data Applications Developer*

*Nov 2020 to Jan 2023*

- Developed a full stack web application by conducting business analysis with fishermen, marine biologists, and government partner agencies, defining functional requirements and user stories, and implementing APIs in Java to interface with a consolidated fisheries database.
- Delivered a D3.js module that transforms Pacific tuna catch forecasts into procedurally generated visualizations based on satellite imagery.
- Integrated a business rules engine into a web client to dynamically render a one-page application, guiding user input and reducing data entry errors for both internal users and external agency partners.
- Created technical documents including data flow diagrams, wireframe mockups, code documentation, and annual data reports while coordinating with partner agency staff to ensure requirements aligned.

**Fast Enterprises**, Louisiana Department of Revenue, Baton Rouge, LA  
*Software Developer*

*Aug 2018 to Jun 2020*

- Improved runtime performance for processing 50 million payments per year by monitoring the job scheduler to address efficiency limitations in multi-threaded operations.
- Implemented web interfaces for return and payment filings by translating legislative tax code and stakeholder requirements into technical logic, capturing requests from taxpayer portal submissions, and initiating ACH transactions with external financial vendors.

## Education

**Vanderbilt University**,  
Nashville, TN

*Bachelor of Arts -- May 2018*

*Majors:*

Neuroscience  
Public Health

## Skills

### Programming

*Primary Languages*

C# / C++ / C  
Java

*Secondary Languages*

Python  
JavaScript  
Visual Basic

*Development Platform*

.NET Core  
Visual FoxPro  
Spring

*Database Query Language*

MySQL / MS SQL Server  
MongoDB  
EF Core

*Web Application*

ASP.NET / Blazor  
React  
Node.js  
HTML5 / CSS3

### Additional Software Skills

Git  
SVN  
Jira / Confluence

## Interests

### Digital Cookbook

Web-based pantry and  
kitchen recipe assistant  
application

Machine learning tools to  
recommend recipes to  
user-specific preferences.