

Katie Nguyen

Aspiring AI Engineer | Full-Stack Developer

React

TypeScript

Java

Python

AWS



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Australian citizen and contract developer at an agtech startup, owning frontend delivery and building an experimental AI agent with **n8n** and **RAG**. Pursuing a degree in Computer Science at **Oregon State University** (4.0 GPA). Certified **Azure AI Engineer Associate** and **AWS Cloud & AI Practitioner**.

EDUCATION

Computer Science, BS

Corvallis, USA
(Remote)

Oregon State University

03/2026 - Present

- Current GPA: 4.0 (US 4.0 scale)
- CS161 Intro to Computer Science I: A (100%)
- CS162 Intro to Computer Science II: A (100%)
- CS225 Discrete Mathematics: A (100%)
- CS271 Computer Architecture & Assembly Language: A (96%)
- CS261 Data Structures (in progress)
- CS290 Web Development (in progress)

Coding Bootcamps

Melbourne, Australia
(Remote)

CareerMentorAU, GeeksForGeeks & Scrimba

03/2024 - 06/2025

- OOP with Java, Multithreading
- Spring Boot & REST APIs
- Spring Security, JWT/OAuth2
- Docker, Maven
- HTML, CSS, JavaScript
- React, UI/UX

Computing (Fundamentals)

Dublin, Ireland

Technological University Dublin

01/2022 - 07/2022

- Grade: 2:1 (Irish scale) / B+
- Information Systems (MySQL)
- System Architecture & Operations (Linux, Ubuntu)
- Object-oriented programming (Python)
- Web & UI Design

SKILLS

Java

Python

TypeScript

JavaScript

Spring Boot

React

HTML5

CSS3

UI/UX

Jest/Vitest

MySQL

MongoDB

Firebase

Linux

Docker

AWS

GitHub Actions

CI/CD

Azure AI

n8n

RAG

Jira

PERSONAL PROJECTS

RAG and Chatbot Automation Workflow (n8n, Self-Hosted VPS)

In Progress

- Built a retrieval-augmented generation (RAG) and chatbot automation workflow using n8n, self-hosted on a private VPS
- Researching AI services to improve bot performance

VocabPal - Language Learning Chrome Extension and Web App (React, TypeScript, Tailwind CSS, Firebase)

01/2026 - 09/2026

- Independently building and managing the full project lifecycle from planning to deployment, using Google Authentication for user login
- Structured the codebase as a monorepo, applying database optimisation and deployment best practices, using GitHub, Jira, and Confluence for continuous improvement

AnimalGame - Two-Player Strategy Board Game (Python, OOP)

06/2026 - CS162 Portfolio Project

- Designed a class hierarchy from scratch with an abstract Piece base class and four piece subclasses to model distinct movement rules and win conditions, applying OOP principles
- Planned the implementation with pseudocode before writing code, then practiced test-driven development, writing unit tests against the design spec to validate move legality, turn order, and win/draw conditions

WORK EXPERIENCE

Web Developer (Contract)

PIPA (People in Paddocks)

Melbourne, Australia

03/2026 - Present

- Contract developer for a live, multi-tenant platform; owns frontend design and implementation, collaborating closely with offshore backend engineers on feature requirements and API design
- Introduced Jira and an agile sprint workflow, replacing ad hoc task tracking with structured backlog management and regular status reporting
- Documented architecture conventions and improved the team workflow by authoring CONTRIBUTING.md
- Picked up an unfamiliar automation tool (n8n) and RAG architecture from scratch to build and debug an experimental AI agent, working through tool-calling reliability issues in an early-stage system
- Cleaned up the codebase early on, restructuring components to improve maintainability
- Built and integrated APIs for multiple app features: Admin Panel, News & Bulletins, Dashboard & Analytics, and User Profile

Software Development Intern

National Australia Bank Ltd

Melbourne, Australia

09/2025 - 11/2025

- Supported Git version control practices for a 7-person team, helping define branching strategy, reviewing pull requests, and assisting with rebasing and merges
- Operated in Agile sprints with frequent demos and small PRs, managing work on Rally boards for visibility and prioritisation
- Delivered a capstone with Enterprise Lending Platform engineers, converting workshop concepts into production-quality features
- Operated with minimal guidance to troubleshoot technical issues and drive solutions forward independently

PERSONAL PROJECTS (CONT.)

x86 Assembly Language Programs (MASM, Irvine32)

CS271

- Built six assembly programs progressing from integer arithmetic and I/O to data validation, recursive procedures, macros, string-primitive parsing, and floating-point stack computation
- Used the Visual Studio debugger to trace execution and diagnose low-level defects

OrderGenie - Voice-Powered AI App (Azure AI, MERN)

04/2025

- Integrated Azure speech-to-text, speech synthesis, form recognition, generative AI, and SLM into a full-stack MERN application

Retail Shop Management Web App (Java, Spring Boot, React, TypeScript, MySQL, Docker)

05/2024 - 08/2024

- Full-stack Spring Boot app with multi-user sessions, role-based access control, JWT authentication, PayPal & Gmail API integrations, and Docker containerisation
- Upgraded the frontend from JSP to React and TypeScript

CERTIFICATES

AWS Certified Cloud Practitioner

(07/2026)

Score: 822/1000

AWS Certified AI Practitioner (AIF-C01)

(07/2026)

Score: 799/1000

Azure AI Engineer Associate (AI-102)

(06/2025)

Score: 862/1000. Build and design end-to-end solutions with Azure AI services including speech, vision, language, and generative AI

Azure AI Fundamentals (AI-900)

(08/2025)

Score: 862/1000. ML, NLP, Computer Vision, and Generative AI fundamentals on Azure