

Yonie Rivera Aguilar

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Summary

Aspiring Software Engineer with experience in full-stack development and a strong foundation in software engineering. Contributed to the development of HuskyBids, focusing on user-centric features and innovative solutions. Skilled in Java, Python, JavaScript, & TypeScript with a proven ability to deliver high-impact projects. Eager to leverage technical expertise in Java to drive successful project outcomes.

Education

University of Washington

Sep 2024 - Dec 2027

B.S., Informatics

Seattle, WA

• **GPA:** 3.57

• **Coursework:** Object Oriented Programming, Data Structures & Algorithms, Databases and Data Modeling, Foundations of Data Science, Information Assurance And Cybersecurity, Client-Side Development

Personal Projects

HuskyBids | huskybids.me

Oct 2024 - 2025

Husky Coding Project

Seattle, WA

- Architected a serverless sports betting platform handling real-time data, supporting 16+ RESTful endpoints by building a scalable Next.js 14 application with a decoupled service layer.
- Reduced database connection latency by ~40% in serverless functions by implementing a Singleton connection pattern for MongoDB, preventing connection pool exhaustion during high-concurrency events.
- Built a transactional betting engine using MongoDB sessions to ensure user balances and game odds update simultaneously, preventing negative balances during high-traffic moments.

Guru | Next.js, TypeScript, Tailwind CSS, Framer Motion | guruapp.netlify.app

Jan 2026 - Present

WINFO Hackathon UW

Seattle, WA

- Built a peer-to-peer tutoring marketplace prototype during the WINFO Hackathon using Next.js and TypeScript, facilitating academic connections between students and tutors.
- Engineered a responsive, fully interactive user interface with Tailwind CSS and Shadcn UI, implementing 15+ distinct views including dashboard analytics, real-time messaging, and scheduling flows.
- Optimized tutor discovery efficiency by developing a real-time search and filtering algorithm in React, enabling users to instantly sort tutors by subject, price, and category without backend latency.
- Designed seamless micro-interactions and page transitions using Framer Motion, enhancing user engagement and perceived platform performance.

Technical Skills

- **Languages:** Python, Java, JavaScript, HTML/CSS, TypeScript
- **Frameworks & Tools:** React.js, Git/GitHub, Node.js, AI-Assisted Development, Next.js
- **Core Skills:** Team Collaboration, Problem Solving, Leadership, Software Development, Learning Agility
- **Backend & Database:** RESTful APIs, Real-time WebSockets, Row Level Security (RLS), MongoDB, APIs, CI/CD

Extracurriculars

Software Engineering Career Club (SWECC) – UW

2024 - Present

Member

- Engaged in career-focused coding challenges, mock interviews, and peer mentorship to build technical interview readiness.
- Participated in workshops on data structures, algorithms, and software engineering best practices

Claude Builder Club

2025 - Present

Member

- Collaborated with peers in the Claude Builder Club to develop and test AI-powered apps and tools using Anthropic's Claude API
- Worked with other members to troubleshoot development issues, optimize code, and share best practices around Claude-powered software solutions
- Actively participated in code reviews and collaborative brainstorming sessions to improve technical and creative approaches to AI app building