

Ekam Singh

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EDUCATION

University of Washington

Seattle, WA

B.S. Computer Science & B.A. Mathematics | GPA: 3.76/4.0

June 2029

- **Relevant Coursework:** Foundations of Computing I, Hardware & Software Interface, Intro to CS Programming II/III, Advanced Multivariable Calculus, Matrix Algebra, Elements of Statistical Methods

EXPERIENCE

KleoKlaw

June 2026 – Present

Backend Engineering Intern

Seattle, WA

- Engineered the inbound SMS pipeline (**Phase 5**) for an AI job-search agent, building a **Twilio** webhook handler and an **8-tool agent loop** with a **Claude Haiku** intent classifier that lets users apply to jobs end-to-end over text
- Built a job-ingestion layer (**Phase 1**) that normalizes postings from **Greenhouse**, **Lever**, and **Workday** into one unified schema feeding the agent's match search
- Integrated the **Ashby ATS (Phase 4)** to automate application submission and added a TOCTOU-safe confirmation store for pending actions

Changemakers in Computing (CiC)

March 2026 – Present

Mentor

Seattle, WA

- Taught **41 high-school students** from underrepresented and first-generation backgrounds **HTML**, **CSS**, **JavaScript**, applied AI, and tech ethics, guiding each to build and deploy a personal website
- Built a **CiC operations app** – a single-file **React** tool with run-of-show, task-tracker, and mentor-roster tabs backed by persistent storage – to coordinate grading of **19 applications**, EdStem lessons, and alumni outreach

Capgemini

Jun 2024 – Aug 2024

Software Engineering Intern

Bellevue, WA

- Developed an internal **Azure AI chatbot** that parses and summarizes large legal contracts for enterprise clients, using **LangChain** and Azure Cognitive Services
- Shipped production-ready features in **8 weeks**, collaborating daily with senior engineers across code reviews, stand-ups, and design sessions via Git

PROJECTS

Claude PR Reviewer | *Python, GitHub Actions, Anthropic API, REST APIs*

June 2026

- Built an **AI-powered GitHub Action** that reviews PR diffs with **cross-file context** and posts inline comments via the GitHub REST API across **GitHub**, **GitLab**, and **Bitbucket**
- Reached **99% statement coverage** over **52 automated tests** behind an 80%-gated CI pipeline, hardening the tool against **prompt-injection** and **denial-of-wallet** attacks

HailMaryRAG | *Python, FastAPI, LangGraph, Elasticsearch, pgvector, Claude*

June 2026

- Architected an **agentic RAG** assistant that decomposes natural-language NFL/CFB questions and runs **hybrid retrieval** across an Elasticsearch index, a vector database, and live feeds to synthesize grounded, cited research reports
- Designed a **LangGraph** pipeline (decompose → retrieve → rerank → synthesize) with a **citation guard** and per-query **cost circuit breakers**, keeping LLMs restricted to decomposition and synthesis while deterministic Python handles all ranking and edge math

Personal AI Dashboard | *React (Vite), FastAPI, Claude Agent SDK, MCP*

June 2026

- Built a dashboard unifying **7 services** (Notion, Slack, Canvas LMS, Google Calendar, Gmail, GitHub, Canva) in one console, wiring integrations over **MCP** with the **Claude Agent SDK**
- Decoupled sync from render so **widget refreshes cost zero model calls**; routed work across **three model tiers** (Haiku for bulk sync, Sonnet for briefs, Opus for chat) to bound API cost

CERTIFICATIONS & COURSEWORK

AWS Certified Cloud Practitioner – Amazon Web Services (*In Progress*) · **Claude Certified Architect – Foundations (CCA-F)** – Anthropic (*In Progress*) · **GitHub Foundations** – GitHub (*In Progress*) · **Google AI Essentials** – Google · **Data Structures & Algorithms** – UC San Diego / Coursera (*In Progress*)

TECHNICAL SKILLS

Languages: Python, Java, C#, C, JavaScript, SQL, R, HTML/CSS

Frameworks & Libraries: React, FastAPI, LangGraph, LangChain, Node.js, Jest

Developer Tools: Git, GitHub Actions, Docker, AWS, Microsoft Azure, Twilio, Redis, Elasticsearch, Linux

Concepts & APIs: REST APIs, RAG, Vector Databases, MCP, Claude Agent SDK, Agentic AI, Prompt Engineering, CI/CD, NLP