CARL PATEL

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OBJECTIVE

Software Engineering graduate student with experience developing cloud based infrastructure and a passion for integrating AI into production environments. Seeking a challenging role that leverages my expertise in cloud computing and systems architecture to build scalable, reliable, and impactful software solutions.

EXPERIENCES

Iterate.ai **Mar 2025 – Sep 2025**
Software Engineering Intern *San Jose, CA*

- Deployed an AWS based pipeline for Pampered Chef using Whisper to automate video captioning and HLS streaming while reducing processing cost by 75%.
- Built frontend components for Ulta Beauty's AI chatbot, collaborating directly with the client to implement requested features and deliver production-ready code.
- Set up databases on in-house servers and wrote automation scripts to ingest over 250,000 medical insurance records daily with robust error handling and logging.
- Updated and streamlined technical documentation for the latest version of Generate and built full-stack enterprise applications for customer purchase and deployment.

Collaborative Healthcare Strategies **Sep 2024 – Mar 2025**
Independent Software Developer *Boston, MA (Remote)*

- Designed and built a HIPAA-compliant note taking web app to assist healthcare professionals in tracking multi-visit patients and reducing hospital readmissions.
- Leveraged AWS DynamoDB, API Gateway, and Cognito integrated with a React frontend to securely manage patient health information through limited user access.

Tresle AI **Jun 2024 – Sep 2024**
Software Engineering Intern *Redwood City, CA*

- Designed and developed an entitlement center enforcing role-based access control across 8 different types of pre-existing resources with diverse naming conventions.
- Collaborated with cross-functional teams to integrate OpenSearch database connectivity, enabling LLM querying while maintaining a seamless pipeline flow.

HashiCorp **Jul 2021 – Aug 2021**
Partner Engineering Intern *San Francisco, CA*

- Built an automated tool to scrape, clean, and structure HashiCorp's partners page, compiling it into a centralized Excel sheet to streamline ongoing website updates.
- Developed a Google Apps Script to auto-format and populate presentation slides with current partner logos, improving efficiency in client-facing workflows.

ORGANIZATIONS

UC Davis Men's Club Lacrosse **Sep 2022 – Jun 2026**
President *Davis, CA*

- Oversaw all team operations and serve as the primary liaison with the university and other teams while leading younger officers to support athletic and academic success.

AI Student Collective **Sep 2022 – Jun 2026**
Project Member *Davis, CA*

- Learn about the growing subject of Artificial Intelligence through research presentations, guest lecturers, and group projects tailored towards helping others.

Boy Scouts of America **Jan 2014 – Dec 2021**
Eagle Scout *Foster City, CA*

- Developed collaboration and leadership abilities by mentoring younger scouts, organizing large community events, and serving in troop elected leadership roles.

EDUCATION

Carnegie Mellon University
School of Computer Science
Master of Software Engineering in Scalable Systems
Expected Graduation: Dec 2027

Coursework:
- API Design
- Formal Methods
- Quality Assurance
- Intro to Computer Systems
- Requirements for Info Systems

University of California, Davis
B.S. in Computer Science
Minor in Technology Management
Graduated: Jun 2026

Coursework:
- Machine Learning
- Algorithm Design & Analysis
- Operating Systems
- Computer Networks
- Database Systems

CERTIFICATIONS

AWS Certified Cloud Practitioner *Jan 2025*

LANGUAGES

- C / C++
- Python
- Rust
- Java
- JavaScript
- TypeScript
- HTML
- SQL
- Go
- R

TECHNOLOGIES

- Linux
- GitHub
- Docker
- Node.js
- React
- AWS
- REST API
- MySQL
- MongoDB
- OpenSearch

SKILLS

- Full Stack Development
- Cloud Computing
- Product Design
- Database Management
- Security & Access Control
- Unit Testing & QA
- Technical Documentation
- Cross-Functional Collaboration