

# Haadi Razzak

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## Experience

<b>Amazon Web Services</b> <i>Software Development Engineer</i>	<b>Aug 2025 – Present</b> Seattle, WA
<ul style="list-style-type: none"><li>Contributed within the <b>Data Center Automation</b> organization to build internal tooling for <b>data center health monitoring</b>, supporting operations across <b>nearly 1,000 data centers worldwide</b></li><li>Created an internal, team-specific package using <b>AWS CDK (Python and TypeScript)</b> to standardize <b>CloudWatch alarm creation</b> as part of an <b>Operational Excellence</b> initiative, defining a consistent alarm taxonomy by <b>service ownership and severity levels</b> to improve alert clarity, maintainability, and on-call readiness</li><li>Expanded the team's service ownership from <b>commercial AWS</b> to <b>Amazon Dedicated Cloud (ADC)</b>, re-architecting systems and performing extensive validation to prevent <b>alarm data leakage</b> between private ADC data centers and commercial environments; partnered with <b>Controls</b> and <b>ADC teams</b>, led <b>User Acceptance Testing (UAT)</b>, and enabled adoption by <b>100+ ADC engineers</b></li></ul>	
<b>BMC Software</b> <i>Machine Learning Engineer Intern</i>	<b>May 2024 – Aug 2024</b> Santa Clara, CA
<ul style="list-style-type: none"><li>Analyzed previous server configurations using time series modeling, achieving a <b>19% improvement in fleet health and a 15% reduction in server downtime</b> through fine-tuning the Llama 2 model</li><li>Leveraged Generative AI with tools like Kustomize to enhance Kubernetes deployments, drawing on historical user data and metrics such as server response time, CPU usage, and container health status</li></ul>	
<b>PayPal</b> <i>Software Integration Engineering Intern</i>	<b>May 2023 – Aug 2023</b> San Jose, CA
<ul style="list-style-type: none"><li>Created a system using NodeJS and Braintree to smoothen the external app payment integration process for high volume merchants, <b>enabling a smoother payment process for 100+ million users</b></li><li><b>Collaborated with 20+ merchants</b> to enhance checkout page customization, optimizing payment interfaces by integrating fraud protection, alternative payment methods, and webhook automation for seamless transactions</li></ul>	
<b>USC CPS-VIDA Lab</b> <i>Research Assistant</i>	<b>Aug 2024 – May 2025</b> Los Angeles, CA
<ul style="list-style-type: none"><li>Engaged in research on decentralized strategies for Multi-Agent Path Finding (MAPF) under Merve Atasever, focusing on navigating agents in dynamic, obstacle-rich environments where each agent operates with a limited field-of-view</li><li>Pre-training agents with reinforcement and imitation learning techniques to recognize and proactively avoid potential conflicts, such as collisions, while operating within constrained fields-of-view in dynamic environments</li></ul>	

## Education

<b>University of Southern California</b> <i>Bachelor of Science in Computer Science</i>	<b>Aug 2021 – May 2025</b> Los Angeles, CA
Relevant Coursework: Operating Systems, Data Structures and Algorithms, Networking, Machine Learning, Linear Algebra, Algorithm Design, Software Development, Prob/Stats for CS.	
Certificates: Supervised Machine Learning: Regression & Classification; AWS Certified Cloud Practitioner	

## Technical Skills

Languages and Technologies: Python, TypeScript, JavaScript, C++, C, Rust, AWS, Node.js, React, PyTorch, TensorFlow	
<b>Projects</b>	

<b>TroyLabs</b>   <i>React Native, MongoDB</i>	<b>Jan 2024 - May 2025</b>
<ul style="list-style-type: none"><li>Selected from over 400 applicants to join an elite cohort of 24 students, partnered w/ Google, AWS, and Robinhood</li><li>Played a key role in migrating Hatchet's application to React Native, connecting it seamlessly to backend services to enhance real-time tracking and monitoring of firefighter locations and vital signs, supporting the platform's mission to improve safety and response times in emergency situations</li></ul>	
<b>NBA MVP Predictor</b>   <i>PyTorch, RandomForestRegressor</i>	<b>Jul 2024</b>
<ul style="list-style-type: none"><li>Built an NBA MVP predictor using PyTorch and a RandomForestRegressor, analyzing <b>60 years of historical NBA data</b> to extract performance metrics and increase prediction accuracy by 25% compared to existing model</li><li>Validated model performance through backtesting, achieving a <b>mean average precision of 85%</b> and significantly reducing error rates, accurately ranking potential MVPs year over year</li></ul>	