

# Jorge Arambula

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## EDUCATION

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University of California, Davis | Davis, CA

*Expected June 2025*

B.A. - Cognitive Science

**Coursework:** Programming, Data Structures, Combinatorics, Artificial Intelligence, Computational Linguistics, Probability Theory, Computational Social Sciences, Analysis of Variance, Economics, Chicano Theoretical Perspectives

## SKILLS & TECHNICAL TOOLS

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**Languages:** Java, Python, JavaScript, C, HTML/CSS, Scheme

**Technologies:** Git, AWS, Jupyter Notebook, ReactJS, Active Directory, Okta, Miradore, MATLAB

**Certifications:** CompTIA Network+(N10-008), CompTIA Security+(SY0-701)

## EXPERIENCE

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IT Systems Administrator | MasTec Advanced Technologies

*April 2025 - Present*

- Administered Windows-based infrastructure supporting 500+ users across 1000+ devices, delivering 98% uptime while ensuring full security compliance for a mid-sized organization.
- Led enterprise wide-security initiatives including comprehensive security patch management and automated backup systems, maintaining system integrity and disaster recovery capabilities across all business units.
- Implemented automated user provisioning process, reducing manual effort by 40% through custom scripting that validates onboarding data against UKG systems, enabling same-day account creation.

IT Helpdesk | MasTec Advanced Technologies

*June 2022 - April 2025*

- Managed Okta SSO and 2FA implementation for 200+ users, ensuring HIPAA and SOC2 compliance through robust security controls, audit logs, and reporting capabilities.
- Designed and executed bi-annual phishing simulation campaigns for entire organization, achieving 70% reduction in successful attacks through targeted end-user training programs.
- Created comprehensive device configuration documentation and security protocols, streamlining onboarding processes and improving user self-sufficiency.

Teaching Assistant | University of California, Davis

*January 2022 - March 2022*

- Mentored 60 students in Python programming fundamentals, including problem-solving techniques and algorithm design, using personalized instructional methods to enhance their understanding and skills.
- Formulated curriculum and supervised students during coding labs (5 hours/week), providing direct support and feedback on assignments, projects, and challenges to ensure hands-on learning and skill development.

## PROJECTS

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Automation & Monitoring Scripts | Powershell, Python

- Built Python script to monitor system health across 10+ servers, monitoring disk usage, uptime and critical events.
- Implemented automated emails alerts via smtplib to notify IT staff when predefined thresholds were breached, reducing system downtime by 35% and decreasing mean time to resolution from 4 hours to 90 minutes.

Office Network Deployment | Ubiquiti UniFi Stack

- Led cross-functional network infrastructure project to replace unreliable corporate network that caused 15+ hours of monthly downtime, impacting 50+ employees productivity.
- Achieved 99% uptime and eliminated multi-day outages through strategic UniFi deployment with advanced firewall configuration, saving an estimated 180+ hours of lost productivity monthly.

CompTIA Study Platform | React, JavaScript, Node.js

- Built and launched MVP within 6 weeks featuring adaptive quizzing, progress tracking, and performance analytics.
- Delivered measurable value with users reporting 25% faster exam preparation compared to traditional study methods.

