

ALEJANDRO VARGAS CORRAL

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Professional Summary

Experienced Software Engineer with deep expertise in designing, building, and scaling large-scale, high-availability systems. Known for delivering innovative solutions that enhance business performance, reduce costs, and enable growth. Skilled in leading cross-functional collaborations, driving technical discussions, and mentoring teams to achieve impactful results.

Experience

Software Development Engineer

Amazon

San Diego, California 09/2019 - Current

- Technical Lead for a cross-team project that reduced product returns, resulting in **\$120M annual cost savings** by designing a scalable, unified solution integrated across multiple Amazon services.
- Spearheaded architecture discussions and led alignment among teams to implement a shared infrastructure, ensuring system reliability and scalability.
- Actively contributed to the design of distributed systems, driving improvements in latency and scaling capacity for peak events.
- Developed and optimized serverless services to monitor and improve grocery catalog quality by automatically identifying and resolving errors in descriptions, images, and pricing, reducing manual interventions by **30%**.
- Collaborated with cross-functional teams to design a solution for fulfillment center (FC) inventory management, enabling prioritization of perishable items with short life spans.
- Designed and implemented APIs for a customer concierge system, enabling seamless integration of chat agents with a backend that managed agent profiles and provided personalized travel and special occasion recommendations.

Lead Developer

Corvus

Ensenada, B.C. 04/2018 - 08/2019

- Developed an augmented reality virtual try-on application for eyewear, increasing customer engagement by **25%**.
- Delivered end-to-end architecture and implementation of Corvus Lens AR (lentescorvus.com), integrating advanced computer vision algorithms.

Co-founder/Lead Developer

Simplepay

Ensenada, B.C. 06/2015 - 12/2017

- Co-founded SimplePay, a fintech startup that grew to **10,000+ monthly users** and employed a 7-person team.
- Developed the MVP and iterative releases, ensuring scalable architecture and a seamless user experience.
- Mentored junior engineers, fostering growth and contributing to a faster delivery cycle.

Software Engineer

Softtek

Ensenada, B.C. 09/2013 - 12/2015

- Development of web applications for the healthcare division of General Electric
- Built, tested and deployed scalable modular software products
- Worked closely with clients to establish problem specifications and system designs.
- Identified and suggested new technologies and tools for enhancing product value and increasing team productivity.

Software Engineer

Rancho Cardenas

Ensenada, B.C. 06/2011 - 07/2013

- Developed an enterprise resource planning (ERP) software that automated the data flow among critical back-office functions in the company.
- Led rapid development of web-based software solutions.

Skills

- Java | Python | JavaScript | TypeScript | C++ | DynamoDB | MySQL | Node | Express | React | Vue | Redux | jQuery | MongoDB | Git
- AWS | Machine Learning | Cloud Computing | CI/CD | Jest | Cucumber | Unit Testing | Lambda | OOP | OpenGL | CSS
- Microservices | Distributed Systems | Frontend | Backend | Full-Stack | English, Spanish – *All professional proficiency or above*

Education

Bachelor of Science

Cetys University

Ensenada, B.C.

2012

- Major in Cyber Electronics Engineering with speciality in Robotics and Automation