

HOVSEP BABAYAN

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EDUCATION

AWS Certified Solutions Architect - Associate (SAA-C03)

April 2026

Amazon Web Services

California State Polytechnic University - Pomona

December 2023

Bachelor's, Computer Science

- Relevant Coursework in Data Structures & Object-Oriented Design, Discrete Methods, Full-Stack Web Development
- Dean's List (Fall 2021, Spring 2022)

PROFESSIONAL EXPERIENCE

Kiddie Kingdom Playground

January 2025 - May 2026

Co-Founder / Software Engineer

Northridge, CA, USA

- Developed and maintained internal business management platform using React and Firebase to support transaction processing, customer management, scheduling, and reporting workflows.
- Troubleshot production issues, performed root-cause analysis, and implemented fixes to improve application reliability and reduce operational downtime.
- Automated reporting and operational tracking workflows, improving data accuracy and providing real-time visibility into business performance.

SoCalParking

August 2021 - December 2024

Software Engineer (Contract)

Glendale, CA, USA

- Designed and developed a ticketless valet management application (EasyValet) to improve vehicle tracking accuracy and operational efficiency.
- Built responsive web applications using React and JavaScript to support customer and operational workflows.
- Performed testing, troubleshooting, and root cause analysis to improve application reliability, identifying software defects and implementing fixes to reduce operational errors.
- Validated software updates and enhancements through testing and debugging to ensure stable releases.

Webinos, Inc.

January 2021 - July 2022

Software Developer Intern

Glendale, CA, USA

- Developed and tested web applications using MEAN and LAMP stacks.
- Built responsive user interfaces using JavaScript, React, HTML, and CSS.
- Participated in code reviews, supported systems, debugged issues, and enabled users and feature validation to improve software quality and maintainability.
- Collaborated with team members to troubleshoot technical issues and support application enhancements.

La Currency, Inc.

June 2018 - September 2021

Branch Manager

Van Nuys, CA, USA

- Managed daily cash operations handling up to \$100K in domestic and foreign currency transactions with high accuracy.
- Monitored and reviewed transactions, identifying and reporting suspicious activity and cash transactions exceeding \$10,000 in compliance with regulatory requirements (IRS/AML).
- Implemented internal controls to improve accuracy of cash collections, transfers, and disbursements by reconciling physical records with system data.
- Ensured strict adherence to compliance standards, maintaining accurate documentation and audit-ready records.
- Managed, trained, and supervised a team of four employees.

Projects

ULyfe

- Developed frontend features and backend integrations for a scalable student engagement platform.
- Integrated Firebase and AWS services to support backend functionality and application scalability.
- Performed testing, debugging, and feature enhancements to improve application performance and usability.
- Worked across full-stack workflows to improve scalability and platform reliability.

PropScout

- Developed a mobile application to aggregate and analyze sportsbook odds data across multiple providers.
- Implemented backend APIs and data processing logic to support real-time odds retrieval and analytics.
- Built features to monitor data consistency, identify discrepancies, and improve the reliability of displayed information.
- Collaborated across frontend and backend workflows to improve application functionality and user experience.

Financial Analytics Project | Python, pandas, scikit-learn, Streamlit

- Built forecasting models to analyze cash balances, interest rate sensitivity, and financial risk metrics.
- Engineered time-based features (lag variables, rolling averages) to improve model performance.
- Simulated stress scenarios to evaluate liquidity risk under adverse conditions.
- Developed an interactive dashboard to visualize financial trends and model outputs.

Customer Analytics & Segmentation | Python, SQL, pandas, Streamlit

- Analyzed real-world retail transaction data to identify customer behavior and revenue trends
- Used SQL to aggregate and analyze customer spending patterns
- Applied clustering techniques to segment customers into high-, medium-, and low-value groups
- Built an interactive dashboard to present insights and business KPIs

Serverless Event API (AWS + Terraform)

- Built a serverless REST API using AWS API Gateway, Lambda, and DynamoDB, fully provisioned using Terraform Infrastructure as Code.
- Implemented DynamoDB for scalable NoSQL event storage and retrieval.
- Configured IAM roles and permissions to securely allow Lambda access to AWS resources.
- Implemented GET and POST endpoints for event creation and retrieval.
- Implemented logging and monitoring using AWS CloudWatch to support debugging, observability, and operational visibility.

Highly Available Web Infrastructure (Terraform + AWS)

- Built custom VPC networking architecture with public and private subnets across multiple Availability Zones.
- Implemented Application Load Balancer to distribute traffic across EC2 instances.
- Configured Auto Scaling Group with Launch Templates to maintain application availability.
- Automated EC2 instance provisioning with user-data scripts to deploy Apache web servers.
- Designed security groups and network routing for secure internet-facing and internal traffic.

TECHNICAL SKILLS

Programming: Java, C#, C/C++, Python, JavaScript, TypeScript

Data & Analytics: SQL (MySQL, PostgreSQL), pandas, NumPy, Data Analysis, Data Visualization (Tableau, Power BI)

Cloud & DevOps: Linux, AWS (EC2, VPC, Lambda, API Gateway, DynamoDB, IAM, ALB, Auto Scaling), Terraform, Docker, Jenkins, CI/CD

Web Development: React, Node.js, Next.js, HTML, CSS, Firebase, MongoDB

Test & Debugging: Root Cause Analysis, System Debugging, Validation Testing, Troubleshooting, Feature Verification

Systems & Test Environments: JUnit (Java), Test Workflow Integration, Software Validation

Tools: Git, GitHub, Vercel

Languages: English (Fluent), Armenian (Fluent), Russian (Intermediate)