

# HOVSEP BABAYAN

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## EDUCATION

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### 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
- Deans List (Fall 2021, Spring 2022)

## PROFESSIONAL EXPERIENCE

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### Kiddie Kingdom Playground

January 2025 - May 2026

*CTO/Co-Founder*

*Northridge, CA, USA*

- Developed and maintained internal operational systems, supporting real-time transaction processing and business workflows.
- Diagnosed and resolved system issues in production environments, ensuring continuous operation and minimal downtime.
- Analyzed system behavior and implemented improvements to enhance reliability and usability.
- Automated reporting and tracking workflows, improving operational accuracy and performance visibility.

### 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, debugging issues, 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

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### ULyfe

- Developed frontend features and backend integrations for a scalable student engagement platform.
- Supported cloud infrastructure integration and backend functionality using Firebase and AWS services.
- Assisted with testing, debugging, and feature improvements to maintain 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, enabling debugging and

#### **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**

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**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)