

# VARAND ABRAHAMIAN

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## Senior Backend Software Engineer

**Backend Software engineer** with over 8 years of experience designing, developing, and deploying scalable server-side applications, implementing efficient APIs, and leading agile development teams. Strong background in leveraging cloud technologies, managing database solutions, and applying best practices to elevate code quality and system reliability. Expert in identifying performance bottlenecks, troubleshooting complex issues, and delivering cutting-edge solutions that propel business growth and exceed client expectations. Adept at mentoring junior developers, fostering a collaborative work environment, and staying abreast of emerging technologies.

### CORE COMPETENCIES

Full-Stack Development | Backend Development | API Design & Integration | Microservices Architecture | Database Management | Cloud Computing | Performance Optimization | Containerization | Agile Methodologies | Data Structures & Algorithms | Unit & Integration Testing | Code Quality Review | Project Management | Engineering Management | Troubleshooting & Debugging | Version Control | Leadership & Team Development | Cross Functional Collaborations

### TECHNICAL SKILLS

- **Programming Languages & Frameworks:** Python | Django/Flask | Django REST | RESTful API | Javascript/Typescript | Node
- **Cloud Services & DevOps:** AWS | GCP | Azure | Docker | Kubernetes | CI/CD Pipelines | Git | Firebase | Heroku
- **Databases:** SQL | No-SQL | PostgreSQL | MongoDB | Elasticsearch | Kibana
- **Software Architecture & Design:** Cloud-Native & Serverless Architecture | MVC | MVVM
- **Others:** Security & Coding Practices & OWASP

### KEY HIGHLIGHTS

- Transformed the backend testing system at AXIOSHQ, boosting unit test coverage from 30% to 90%, which enhanced feature stability and reinforced customer SLA commitments.
- Developed a billing and incident-tracking solution for airlines to optimize billing accuracy that generated up to 30% annual cost savings.
- Strengthened business relationships and secured new contracts through strategic meetings with airline clients, coordinating timely software updates that obtained maximum satisfaction rate.

### PROFESSIONAL EXPERIENCE

**RevenueKit** | Los Angeles, CA

#### Senior Backend Software Engineer

**Feb 2024 – Present**

- Developed and maintained serverless backend architecture using AWS Lambda, Node.js, and Python, optimizing API performance and scalability.
- Designed and implemented RevenueKit's public API, enabling seamless integrations with third-party platforms such as Make.com and Zapier.com, and created webhook systems to facilitate real-time data synchronization.
- Engineered integrations for multiple services across AWS, leveraging S3, SQS, and CloudWatch to streamline data processing and event-driven workflows.
- Managed infrastructure using Terraform and AWS CodeCommit, ensuring efficient deployment and infrastructure as code (IaC) best practices, while improving system observability with CloudWatch logging and alerting.

**AXIOSHQ** | Los Angeles, CA

#### Backend Software Engineer

**Jun 2021 – Feb 2024**

- Collaborated with 15 engineers to design and implement core features, including templates, Segments, and Routine, by refining data models, facilitating API integrations, and driving performance improvements for an optimal user experience.
- Built a scalable backend architecture using Python, Django, DRF, PostgreSQL, and Node.js, integrating microservices for real-time performance and optimized data processing.
- Led engineering teams in developing real-time monitoring guidelines for the company using Honeycomb and Sentry to enhance code quality and maximize system reliability.
- Deployed automation solutions for repetitive tasks, resulting in an annual savings of 26 employee hours for clients, boosting productivity and streamlining workflow efficiency.
- Directed technical hiring initiatives and detailed interviews, conducting system design and code reviews to support recruiting and evaluating skilled employees.

## Backend Software Engineer

Oct 2017 – Jun 2021

- Spearheaded the development of a system for airlines to manage billing and track passenger incident records to improve operational efficiency and compliance.
- Engineered a tablet-deployable app by leveraging Java for the frontend, Python/Django for the backend, and PostgreSQL for efficient data handling and real-time interactions.
- Managed the end-to-end software development lifecycle for a proprietary passenger tracking system, collaborating with airlines like Spirit, United, and Southwest to integrate real-time data flow from booking to airport interactions.
- Led engineering team in implementing agile methodologies to refine coding efficiency, increase AWS software stability, and enable passenger data integration with airline systems.
- Digitized airlines' record-keeping, transforming paper data into a secure and FAA-compliant database to enhance data accessibility and retrieval efficiency.

## KEY PROJECTS

### Password1 [\(Link\)](#) | Cyber Security | June 2024 – Present

- Developed an open-source project that utilizes advanced algorithms to transform weak passwords into strong, hashed versions.
- Created a custom algorithm that generates unlimited secure passwords from a single unsecured seed, eliminating the need for password storage and reducing the risk of reuse from compromised passwords.
- Reduced 50% of password-related security incidents and increased a 30% adoption among non-tech-savvy users by enhancing password management capabilities.

### WatchYourPass [\(Link\)](#) | Cyber Security | Aug 2021 – Present

- Engineered a full-stack website utilizing Django and Django Rest Framework for the backend and React for the front end that minimized 30% load times.
- Devised email and password monitoring features to detect database breaches and deliver real-time alerts for over 5,000 users, achieving a 95% accuracy rate in credential tracking.
- Strengthened security measures, resulting in a 40% reduction in user-reported incidents and minimizing the risk of unauthorized access and personal information theft.
- Boosted user engagement by 25% by designing and implementing user-friendly interfaces that streamlined navigation and enhanced the overall user experience.

### Intrude [\(Link\)](#) | Cyber Security | Apr 2020 – Present

- Developed a web suite of pentester tools for cybersecurity professionals, enhancing security assessment capabilities and improving productivity by 40%.
- Engineered the platform with advanced security features and real-time data analysis to support 200+ cybersecurity tests monthly.
- Reduced vulnerability identification time by 30%, utilizing Django and React to build a scalable infrastructure that elevated user experience and high performance.

### Juli [\(Link\)](#) | LA Hacks | Jun 2017 – Jun 2017

- Transformed simple passwords into secure, complex hashes and improved 50% of password security by enhancing the hashing algorithm using SHA1 with special characters and capital letters
- Architected the backend infrastructure with Python and Django to enable API integration for the Chrome extension and website, processing over 10,000 password conversions daily without storing passwords.
- Crafted a user-friendly interface allowing users to convert simple passwords into complex, hack-proof passwords with a single click, improving user experience and security.

## CERTIFICATIONS

Python DSA Made Visual-Learn from Engaging Animations | Udemy, Mar 2024

Security+ CE | CompTIA, April 2021

Capstone: Retrieving Processing and Visualizing Data with Python | University of Michigan, Aug 2020

Python Data Structures | University of Michigan, Aug 2020

Python for Everybody Specialization | University of Michigan, Aug 2020

## EDUCATION

Associate Degree in Computer Science | Santa Monica College, 2021

Languages: English (Fluent) | Armenian (Conversational)