Konstantino *Sparakis*

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WORK EXPERIENCE

Lead Software Engineer & Product Manager   March 2024 – Present

Undisclosed | Naples, FL (Working Remotely)   *AWS, Javascript, Serverless, Cockroach DB, React, Terraform*

- Leading a team of 5 engineers and 1 designer to build an MVP software product in the med tech space. Architecting the backend and frontend product design, and managing the project timelines, hiring and delegating work on Jira in a Kanban fashion.
- Architected a RESTFUL Javascript event-driven micro services serverless backend
- Built fully automated Gitlab CI pipelines using terraform and serverless framework to deploy a Multi Region AWS infrastructure along with custom logging and monitoring solution in AWS cloud watch.

Backend Software Engineer   August 2022 – March 2024

Nifty Island | Austin, Tx (Working Remotely)   *Typescript, Kubernetes, Postgres, Load Testing, Kibana, Grafana, AWS*

- Collaborated with Game, Frontend, Blockchain and DevOps teams to engineer features for a Typescript-based node.js backend, supporting an open metaverse video game with NFT functionalities working off Ethereum & Polygon, deployed on Kubernetes and AWS infrastructures.
- Helped the team transition from alpha to beta testing and stabilizing the system after launch.
- Led initiatives to enhance SQL query, API and infrastructure performance, utilizing Grafana, Kibana, SQL Explain/Cost/Analyze queries, and artillery load testing for significant efficiency and cost reductions.

Software Engineer   November 2020 – August 2022

Belong Gaming | New York City (Working Remotely)   *Node.js, Serverless Framework, API Gateway, Microservices*

- Architected and deployed Node.js serverless microservices on AWS, integrating event-driven architectures and REST API endpoints, and developed robust SQL/NoSQL schemas for CockroachDB and DynamoDB.
- Led the setup of developer pipelines using GitLab CI, Terraform, and Serverless Framework, and assisted in the integration of New Relic for service monitoring and bug resolution.
- Contributed to the design and implementation of data analytics pipelines using Scala, Snowflake DB, and Databricks, enhancing data handling and analytical capabilities.

Backend Software Engineer   August 2019 – April 2020

XX Network | Claremont, CA (Working Remotely).   *Golang, Distributed Systems, GRPC, Cryptography, Blockchain*

- Collaborated in an eight-member team to build a distributed network for anonymous, encrypted transactions and instant messaging, achieving speeds of over 100k transactions per second.
- Enhanced the Golang codebase for the transition from Alpha to Beta-Net, focusing on performance improvements, bug fixes, and test coverage for open sourcing.
- Improved distributed server code for local testing and participated in critical design reviews that enhanced features like error management and secure communications.

Software Engineer & UX Designer

XX Network | Claremont, CA (Working Remotely)

February 2019 – August 2019

Product Management, Kotlin, Android, Python, AWS Serverless

- Collaborated with management and backend teams to conceptualize and design the xxMessenger and xxCollective mobile apps, leading UX research and crafting initial UI/UX with Sketch and Balsamiq to ensure privacy and user-friendly interfaces.
- Developed the xxMessenger and xxCollective Android apps using Kotlin, Dagger, Room, MVVM, RxJava, and Golang bindings for efficient server communication.
- Built a serverless REST API backend for xxCollective on AWS, supporting over 10k users with Python Lambdas, API Gateway, MySQL RDS, and VPC.
- Implemented a privacy-focused AWS Cognito instance for anonymous user authentication in the xxCollective apps.

Junior Full Stack Software Engineer

PrivCo | New York, NY

July 2018 – February 2019

PHP Zend, Python, AWS Serverless

- Integrated Salesforce with the PrivCo platform allowing customers to directly push data into salesforce. Built frontend UI experience along with Python Serverless RESTFUL API using AWS Lambda, API Gateway, and Cognito.
- Worked with ZEND PHP backend to create routes and edit frontend user interface using jQuery.
- Performed security analysis on application, to prevent SQL injection, XSS, and CSRF.
- Implemented new company wide IT policies to increase security and education

Software & Security Engineering Intern

Lexumo | Cambridge, MA

March 2016 – October 2016

Phabricator, JIRA, Slack, Git, Python, Docker, Strace

- Maintained and improved client application code written in python and c.
- Ensured compatibility of applications client-side code with the majority of Unix based systems. using Docker with a CentOS5 image to ensure compilation with lowest Glib library possible.

EDUCATION

M.S. Computer Engineering

Boston University | **2017**

Course Work: Theoretical Cryptography, Applied Cryptography, Networking for IOT, Cloud Computing, Data Science with Python, Embedded Systems, Network Security.

B.S. Computer Engineering & Minor in Business Administration

Boston University | **2016**

SKILLS

Fluent Spoken Languages - English, Greek, and Spanish

Programming Languages - Python, Typescript, JavaScript (React.js, Node.js), Golang, Kotlin/Java

Infrastructure Tools: Serverless Framework, Terraform, Gitlab Ci, GitHub Actions, New Relic, Sumo Logic Grafana, Kibana, AWS

Design – Figma, Sketch, Balsamic, Wireframing, Prototyping, Abstract, Illustrator, Zeplin, A/B testing