



# PROFILE

I am a passionate self-starter with 10+ years of experience designing and delivering cost effective low-latency cloud, mobile and web solutions. I am a team player with a proven track record of delivering quality solutions with a keen interest in distributed low latency systems.



## EXPERIENCE

### Senior Software Engineer

E.ON - via Arnia

July 2023 - Present

python java docker kubernetes azure

- Achieved a dramatic 100% reduction in trading platform order execution time from 30 seconds to 5 microseconds through cunning rewrite of the order execution algorithm.
- Standardized order routing algorithm config through trader friendly rule generation UI that reduced by 90% the time to market for new trading strategies with no code changes required.
- Reduced by 80% onboarding time and increased developer velocity by Dockerizing a Python & Java monorepo in devcontainers.

### Senior Software Engineer

Apsis.ai (Arnia)

February 2023 - July 2023

python ai inference machine learning kubernetes aws eks

- Led the optimization of an AI inference pipeline for an AI platform. Worked on a custom K8s operator to manage GPU RAM allocation for fleet of artificial neural network (ANN) workers.
- 57% reduction in E2E latency by optimizing architecture & code of the AI pipeline workflow.
- Improved by 95% the pod scale out time via pre-warming of K8s PVC with model metadata.
- Reduced by 94% the CI duration by optimizing the AI image & re-architecting CI/CD pipeline.

### Senior Research Engineer

LG Electronics - via Arnia

February 2022 - February 2023

c++ webrtc python cmake docker electron

- Created cross-platform native conferencing application in C++ with focus on WebRTC network stack and UNIX socket cross-module communication.
- Reduced UNIX TCP sockets network chatter by 55% as tracked by cAdvisor.

### Team Lead

ValueDynamx - via Arnia

February 2021 - February 2022

typescript kubernetes kafka reactjs redis glue hadoop

- Led team of 4 in planning, architecting & delivering a serverless redemption platform with B2B & B2C API's on Lambda. Delivered on-time with CMS backed white-label ReactJS web.
- Successfully liaised with down-stream systems in integrating a new proxy wrapper to break up a Java monolith. Used Kafka, Docker & TS. Added CI that enabled daily release cadence.
- Designed and implemented plugin based API Gateway internal service. This new integration with downstream vendors reduced cross-team load by 17%.

### Senior Software Engineer

E.ON - via Arnia

February 2020 - February 2021

kubernetes azure aks go lambda dynamodb hadoop step functions cognito

- Reduced MTTR by 33% by adding monitoring of AKS & Azure Functions via ELK on AKS
- Created magic link sign in/up system rolled out across all company sites increasing customer sign-up completion journey by 32%.
- Setup event-driven ETL pipeline over of TB of customer S3 data lake in PySpark Hadoop. New real-time BI increased customer engagement by 11% through targeted offers.
- Cut down L1 support load by 27% via new ReactJS & Go self-service portal for customers.

# Cristian Boarna

Full Stack Senior Developer

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## CERTIFICATIONS

aws AWS Certified Solutions Architect - Professional  
· Amazon Web Services

aws AWS Certified Big Data - Specialty Certification  
· Amazon Web Services

aws AWS Certified DevOps Engineer - Professional  
· Amazon Web Services

aws Kubernetes Certified Application Developer  
· Linux Foundation(Pending)

corda Corda Certified Blockchain Developer  
· R3 Corda

## </> SKILLS

· Languages: NodeJS, Typescript, Go, Dart, Python, Java, Kotlin, Rust

· Frameworks: ReactJS, Flutter, Kafka, Hadoop, Akka, GatsbyJS, ExpressJS, Spring

· Databases: MySQL, PostgreSQL, Cassandra, DynamoDB, CosmosDB, MongoDB, Redshift

· Clouds: AWS, Azure, Firebase

· IaC: AWS CDK, CloudFormation, Terraform, ARM(Azure)

· Configuration: HCL, Helm, Ansible, Packer, Chef

· Solutions: Docker, Kubernetes, ELK, Electron, ReactNative

## Senior Software Engineer

Collinson Group - via Arnia

March 2018 - February 2020

lambda ecs ec2 rds dynamodb nodejs kotlin terraform

- Led team of 3 to create cluster based blockchain ledger platform. Developed on NodeJS, Kotlin & ReactJS running on ECS with self-checkout customer node expansion via Terraform.
- Led & delivered serverless platform digitizing manual tasks of foundation with 50+ clients.
- Managed & developed Workplace NLP bot as L1 support used by 250+ employees. Added ReactJS HR dashboard for human chat escalation, nominations & meeting room bookings.

## Software Engineer

Cahootsy

July 2017 - March 2018

lambda ecs sqs s3 nodejs elasticsearch etl nlp

- Reduced by 90% a 5 days faulty process via an event driven ETL for targeted ad campaigns.

## Software Developer

Citi - Rates Pricing E-Trading

September 2016 - July 2017

java spring low-latency docker nodejs kubernetes

- Consolidated streaming of real-time pricing data to 100's of downstream systems via a low latency asynchronous graph based distributed aggregation system in Java Spring.
- Reduced by 65% testing time of strategic logic by creating generic Cucumber test generator.

## Software Engineer

Citi - Futures E-Trading

September 2015 - September 2016

java spring low-latency angularjs nodejs

- Successfully did fundamental architectural change to major project by replacing duplicate JSP pages with modular Angular web and observer, decorator, adapter based Java backend.

## Software Engineer

Nomura - Web Services Technologies

June 2013 - June 2014

java python3 spring

- Reduced team load by 95% on majority of daily tasks via Python and Java automation.

## PROJECTS

### Innerl

Mobile App

flutter dart firebase firestore cloud functions

- Flutter cross-platform iOS, Android & Web app written in Flutter for users mental health.
- Leveraging Firebase Firestore for storage and Cloud Functions for serverless backend.
- CI/CD pipeline in GitHub Actions for testing, building and deployment leveraging FastLane

### Google Flutter

Open Source Contributor

flutter dart doctor

- Added improvements to Flutter project platform engine and `flutter doctor` tool.

### Kubernetes

Open Source Contributor

kubernetes go networking cli

- Contributor across Kubernetes Open Source Project networking and cli SIGs.

### Augmented Reality Terminal

Desktop App

c++ opencv computer vision sockets collision

- Created software framework with OpenCV and C++ to provide advanced HCI by using hand gestures manipulating digital artifacts with web camera and computer vision algorithms.
- Implemented 3D environment through Irrlicht and C++ with networking and physics for engaging collaboration between multiple remote users in a synchronized environment.

## EDUCATION

### University of Manchester

BSc Computer Science (Hons)  
with Industrial Experience  
2011-2015

- Courses: Distributed Computing, Computer Networks, Chip Multiprocessors, Cryptography & Network Security, Computer Vision, Advanced Graphics

## LANGUAGES

English (Native - C2)

Romanian (Native - C2)

French (Beginner - A2)

Spanish (Beginner - A2)

## INTERESTS

- Circuitry: Design & implement DIY Smart Home. Completed TV Ambilight & Audio via Arduino

- Drones: Building and flying in 1st person view of light drones

- Salsa: Learning Salsa, Tango and Bachata for fun

- Kiteboarding: Extreme sport with satisfying adrenaline punch during windy days