Summary

Kroum Klutchkov

Technical Lead @ Paytron

Sydney, NSW

0411105699

Kroum.klutchkov@gmail.com

linkedin.com/in/kklutchkov github.com/Astr-o

I am a Technical Lead/Manager, with over 4 years’ experience leading a high-performance multifunctional team and over 10 years’ experience in Software Engineering & Data Science.

I have broad technical skills in Cloud Architecture, Full-Stack Web Development, Data Science, Serverless Event-Driven Architectures, API led design, Statistics, Computer Science and experience with implementing solutions in Google and AWS Cloud.

I am a servant leader who is dedicated to ensuring my team is well supported, productive and working in a collaborative way. While maintaining our focus on technical and operational excellence.

I am also a polyglot Software Engineer with fluency in modern Typescript, Python and SQL, with experience in Java and C#. I am committed to a lifetime of learning and love being exposed to new techniques and technologies.

Key Skills & Expertise

* **People Management** – standups, retrospectives, code reviews, team building, promoting a culture of technical excellence and personal development.
* **Technical Leadership** – Building vendor and partner relationships, presenting, and sharing technical knowledge with a broad audience.
* **Project Leadership** – Presenting POCs and showcases, helping facilitate change management and training, managing stakeholder expectations and resource planning.
* **Web** – React/Vue.JS, Typescript, Javascript, NodeJS, Sass, Webpack
* **Data Science/Data Engineering** - Python, SKLearn, NLTK, Dialog Flow, Pandas, Flask, Jupyter Notebooks/Labs
* **Data Analytics** – Tableau, Big Query, AWS Quicksight
* **API Led Design** – Apigee, AWS, APIGatway, REST, GraphQL, WebSockets
* **Serverless Architectures** - AWS Lambda, Step Functions, SNS, SQS, Event**Bridge**
* **Containerization** - AWS ECS, Docker
* **Databases** - MSSQL, Mongo, Dynamo
* **Unit Testing & CDI** - Bitbucket Pipelines
* **JIRA & Agile Methodology** – Kanban, Scrum
* **Salesforce** – Integration and Architecture
* **Blockchain/Ethereum – C**urrently playing with solidity & smart contracts

Experience

April 2021 – Now

Paytron

Technical Lead – APIs & Data

Key Achievements

* Introduced daily standups and weekly engineering huddles to help information flow within the team.
* Lead development and initial rollout of Partner API, including developer documentation and experience with OpenAPI 3.0 + Postman.
* Standardized the use of Typescript across all Backend Microservices.
* Championed move to CDK and infrastructure as code as standard across all microservices.
* Developed a complete data pipeline and reporting solution for Daily Reconciliation using Amazon Athena and Glue.
* Lead Implementation of MYOB Advanced ERP Partner integration.

Responsibilities

* Ensuring a culture of technical excellence through code reviews, standards and open discussions with the team
* Architecting and delivering backend microservices with AWS Lambda Serverless and typescript
* Maintaining governance and security standards
* Supporting sales as required across API and Data
* Mentoring and inducting new developers into a rapidly growing and fast paced environment

Skills

* **People Management & Agile Development** – standups, retros and code reviews
* **Distributed Web Application Development** – JIRA, Typescript, NodeJS, OpenAPI, Datadog, AWS, Lambda, API Gateway, SQS, SNS, EventBridge, Dynamo
* **Data warehousing and Data Science** – Athena, QuickSight, Python

August 2018 – April 2021

Employsure

Engineering Manager - Transformations

Key Achievements

* My team was responsible for implementing AI, Analytics and Digital platforms to support Employsure's rapid growth to over 30,000 clients across Australia and New Zealand.
* Shaped the strategic digital technology road map and built a team to deliver it over 3 years.
* Technical Lead and Architect on greenfield Customer Document Platform, end to end from requirements through to build, change management and post-rollout support. Scaling to 25k users
* Promoted and implement the move to Multi-Cloud (AWS, Google)
* Lead the rollout of Big Query Datawarehouse, drastically decrease operation cost and agility of reporting.
* Standardised Serverless Architectures (AWS + Serverless Framework), API Documentation & Authentication (Apigee) as well as Containerization (AWS ECS + Docker) across all our current and future projects
* Developed and taught courses across the organization focused on understanding data and statistics for a wider business audience.

Responsibilities

* Ensuring key leaders within the business understand how to best use technology to reach their goals
* Building, mentoring and supporting a high performing team of technologists
* Effectively managing technical debt while delivering minimal time to value for stakeholders
* Ensuring a culture of technical excellence through code reviews, standards and open discussions with the team
* Architecting and prototyping solutions using a variety of languages, frameworks, and platforms.
* Ensure the success of technology projects by supporting change management
* Maintaining governance and security standards
* Establishing and managing vendor and partner relationships

Skills

* **People Management & Agile Development** – standups, retros and code reviews
* **Data warehousing and Data Science** – Big Query, Tableau, Python, AutoML
* **Web Application Development and Management** – JIRA, Angular, NodeJS, GraphQL, Google Analytics, Kubernetes, Sass, ReactJS
* **Data Engineering & Integration** – Python, Lambda, SQS, Dynamo, Step Functions, NodeJS
* **R&D Prototyping** – Fail Fast & Iterate, Hackathons
* **Salesforce** – Integration, Outbound Messaging and ETL

August 2016 – August 2018

Employsure

Software Engineer – Fullstack & AI

Key Achievements

* Leading a project to develop an email classifier system based on custom machine learning model and NLP
* Building and Deploying Employsure’s first bot “Emi” the Facilities Assistant Bot
* Implementation of several complex integrations between Salesforce, Purecloud and Public Cloud services in AWS
* Implementation of custom interactive Services Dashboards showing real-time data and geocoded location of calls across Australia using ReactJS/NodeJS
* Helping socialize and advocate the use of AI technologies through talks and technology demos

Skills

* Full stack Typescript (NodeJS/VueJS)
* Python (Flask, Jupyter Notebooks, Numpy)
* SQL Databases (PostgresSQL, Microsoft SQL Server)
* Unit Testing (Mocha)
* Chatbots
* Machine Learning (Scikit Learn, IBM Watson, Voice Transcription)
* Git & Bitbucket
* Salesforce Integration and Apex
* REST APIs
* Microservices
* Amazon Web Services (S3, RDS, EC2, Lambda, API Gateway)
* Heroku
* JIRA & Agile Methodology

September 2015 – August 2016

Task Retail Technology

Software Engineer – Javascript/C# ASP.NET

Task Retail develops and supports the revolutionary xchangepoint cloud enabled POS system.

Key Achievements

* Redesign and development of a phone/online ordering system
* Optimization of various frontends
* Developing back end integration for various external gaming interfaces

Responsibilities

* Working closely with the support team on rapid response issues
* Agile development of additional functionality and modules
* Exchanging information with and handover to Polish and US development

teams

* Working directly with clients to design and optimize user interfaces

Skills

* C# .NET Fullstack Development
* Microsoft SQL server and T-SQL Optimization and development
* Agile Software Development
* Testing automation & CI

November 2013 – August 2015

Northbridge Secure Systems

Software Engineer – Client Development

Northbridge Secure Systems develops and supports NetConnect, a market leading real-time mobility and remote access system.

Key Achievements

* Lead development of Windows .NET Client of the Northbridge NetConnectMe remote access system.
* Redeveloped undocumented and incomplete Android NetConnect client, integrated a third party modern RDP library and re-factored existing code.
* Created the NetConnect license server.

Skills

* Android application development. (Java & C)
* Windows .NET Development (C#)
* iOS Development (Objective C/C)
* Internal systems administration (Linux, VMWare)
* Testing and test automation, GIT

January 2013 – March 2014

ANU Physic Students’ Society

Executive – Secretary

I was tasked with administrative and record keeping duties for the society. I also worked closely with a small team of executives to organize events and activities for our 100+ members.

Education

2011 - 2015

The Australian National University

Bachelor of Science - Computer Science & Mathematics

Research Projects

* Recurrent Cascade Neural Networks and Supervised Learning (Published)
* Pandaboard Energy Measurement Framework
* Computational Model of Hydrogen Double Ionization

2009 – 2011

**Australian Science and Mathematics School**

Accelerated Program

Extra-curricular activities

* Debate Team
* Extracurricular Research – with University of Adelaide
* ASMS International Science Fair
* National Physics Olympiad
* Student Guide

Honors and awards

* **ANU Science Relocation Scholarship** - 2012
* **Flinders Universit**y **Youth Science Innovator of the Year** - 2011
* **Medal Winner in UNSW Digital Technologies Competition -** 2008
* **Medal Winner in UNSW Science Competition -** 2010, 2008
* **ATAR** – 98.7