

# Dustin Engle

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## Profile

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Results-driven Senior Software Engineer with over 10 years of experience leading cross-functional teams designing, developing, and implementing innovative software solutions. Expert in full-stack development, collaborating with stakeholders to deliver efficient, scalable, and high-impact projects. Proficient in AI, Blockchain, Enterprise, IoT, Mobile, and Web, committed to staying current with tech trends. Known for strategic problem-solving and a passion for clean code.

## Experience

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### Senior Software Engineer

October 2021 - December 2023

Warner Bros. Discovery (Contractor via Eliassen Group)

*Remote*

- Mentored and provided code reviews for teams while offering experience insight and knowledge transfers in Java and enterprise architecture, so that design documentation was implemented with correct understanding.
- Wrote architectural design documentation or ADD, and managed a team responsible for the global territory-based targeting system for promoted content on Max for the launch into Latin America, Europe, and beyond utilizing Java Vert.x framework and PostgreSQL database.
- Contributed to developing a suppression service with Java in SpringBoot for Max, capable of handling over 100k/RPS, for suppressing already watched content. Wrote SLO documentation that was used to set up monitoring and alerting.
- Coordinated and managed a team of engineers to deliver an important content promotion scheduling service for the launch of Max that published events to Kafka from a Java SpringBoot microservice.
- Developed and coordinated the release of a new content generation system that cut costs by millions a year and served content for the House of the Dragon to 9.98 million viewers HBO Max by utilizing DynamoDB, Redis, Postgres, and Node.js with Typescript.
- Participated in weekly on-call rotations for HBOMax and Max, including major release on-calls like House of the Dragon and the Max platform launch in the USA.
- Contributed to automated Terraform deployments of Kubernetes to AWS and helped set up Docker Compose configurations for local development.
- Implemented and provided oversight to ensure good observability for all content discovery team services: metrics w/ graphing, logging, and alerting according to SLA or SLO.

### Principal Engineer

February 2022 - September 2022

Dome Global

*Remote*

- Architected a cross-platform SDK with a functional interface that supports multiple compilation outputs, including WASM.
- Designed and developed a WASM wallet that works with ETH and other ERC20 tokens but also provides native WebSocket support for event consumption from ETH and other services like Infura.

### Chief Technical Officer

January 2021 - September 2021

Pagarba Solutions

*Remote*

- Drove company growth and innovation for several products spanning AI, Blockchain, Mobile, Web, and IoT with increasing revenue.
- Initiated adoption of a cross-platform framework that allowed for the targeting of desktop, mobile, and web with a single codebase. Simplified AI model integration and GPU access.
- Designed and managed the development of an AI platform and training pipeline for a team of AI engineers and data scientists.
- Architected a system for image dataset generation which included custom electronics hardware and a mobile UI; synthetic data and photorealistic renderings supported.
- Streamlined the testing and quality assurance of products and coordination between different departments.
- Set up company guidelines and procedures that shaped the baseline for future company growth.
- Provided a company culture that supported efficiency and transparency for people and products, based on team feedback.

#### Senior Blockchain Engineer

February 2019 - January 2021

Pagarba Solutions

*Remote*

- Designed the development of a custom blockchain, wallet, marketplace, and SDK for a line of DIY and IoT devices.
- Competed in and won an international hackathon by designing and developing a cellular emergency response system that provided a cellular network with data capture and reporting for crisis response management.
- Engineered an IoT mailbox that can be activated by a blockchain and shared securely with users and distributors. It can be opened from anywhere in the world with an internet connection.
- Architected an IoT ingestion server that supports unlimited blockchain backends for publishing raw or rolled-up sensory data that can be partitioned and processed as configured in the UI rules designer.

#### Blockchain/Full-Stack Engineer

January 2018 - February 2019

Bulwark Cryptocurrency

*Remote*

- Designed and developed an open-source blockchain explorer with worldwide adoption across hundreds of other blockchain projects.
- Coordinated and managed the implementation of the Zerocoin zero-knowledge proof protocol that provided an extra layer of anonymity.
- Designed and developed the creation of a home node device with a custom dashboard for device and network monitoring.

**PRIOR SOFTWARE AND MILITARY EXPERIENCE AVAILABLE ON REQUEST**

## Certifications

[Getting Started with AI on Jetson Nano](#)

November 2023

[DeepLearning.AI Tensorflow Developer Specialization](#)

May 2023

## Skills

### Languages:

Bash, C, C++, C#, CSS, Dart, Go, Java, JavaScript, PHP, Python, SASS, TypeScript

### UIs:

Angular, Bootstrap, Dart, Expo, Ionic, jQuery, QT, React, React Native, Tkinter, Vue, WinForms

### AI:

DLib, Keras, ONNX, OpenCV, PyTorch, scikit-learn, TensorFlow, Tesseract, TFLite, Ultralytics

**Databases:**

Badger, LevelDB, MariaDB, Milvus, MongoDB, MS SQL, MySQL, PostgreSQL, Redis, SQLite3

**Providers:**

AWS, Azure, GCP, Hetzner, Linode, Oracle, Scaleway

**Frameworks:**

CodeIgniter, FastAPI, Flask, Gin, Laravel, Meteor, Micronaut, Spring Boot, Vert.x

**Concepts:**

Agile, CI, Kanban, KPI, OKR, Scrum, TDD

**Blockchains:**

Bitcoin, ChainLink, Cosmos SDK, Ethereum, PIVX, Ripple, Stellar, Tendermint

**Software:**

Confluence, Git, Jenkins, JIRA, Linux, Windows