

# Danny Sylvester Crasto

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*Cloud developer & lead with over a decade of expertise building distributed, high throughput, event-driven systems. Golden Visa resident.*

## EXPERIENCE

**Senior Staff Engineer** [Staff: '21-'22] | *dubizzle.com, Dubai, UAE* | May'22 - Mar'25

Migrated our legacy, bare-metal, **monolithic architecture** to containerized, **microservices architecture** with over **40 services** to **AWS**. Set foundations of the **event driven architecture**, processing over **100M** messages/day. Responsible for **critical migrations** with emphasis on **stability**. Hands-on with **code, technical specs, DB optimizations**. Maintained the **tech roadmap** actioned by **creating a backend guild**. **Mentored engineers/interns and improved processes** to increase **developer efficiency**. Responsible for international **backend hiring**. [Python / Django / AWS / SOA / Micro services]

**Engineering Manager** | *dubizzle.com, Dubai, UAE* | Dec'15 - Jul'21

**Managed** the cross-functional Real Estate Tech team of eight, responsible for **tech strategy and roadmap delivery** to support **95%** of the country's real estate agencies. Liaised with product managers, departments and clients to maintain and deliver revenue generating features. **Architected** solutions, resolved tech issues while **growing the careers** in my team.

## PASSED EXPERIENCE

**Senior Software Engineer**, [Software Engineer: '13] | *dubizzle.com, Dubai, UAE* | Jan'13 - Nov'14

- Develop **B2C/C2C Real Estate features**, manage the **execution** of the **sales and operations product roadmap**

**Software Engineer**, *Lexmark International Inc, Lexington, KY, USA* | Oct'10 - May'12

- **Embedded C++** system developer building **RESTful API** on smart printers

**Software Engineer**, *Mersive Technologies, Lexington, KY, USA* | Oct'08 - May'10

- Built a Linux/C++ **auto geometric/color calibration system** for multi projector, **ultra HD (100 Megapixels)** displays.

**Research Engineer II**, *Center for Visualization & Virtual Environments, Lexington, KY, USA* | May'06 - Sep'08

- Built a **multi node/sensor environment**(audio/video/Rfid) to execute experiments using our **python's SWIG SDK**

## SKILLS

**Languages** Python, C, C++, Java, NodeJS, Bash

**Frameworks** Django, flask, DRF, FastAPI, pandas, ExpressJS, OpenCV, Boost, Spark, NLTK, Ansible

**Databases** MySQL, PostgreSQL, Redshift, DynamoDB, BerkeleyDB, Raik, Redis, ElasticSearch

**Architecture** Microservices, Service Oriented, Monolithic, Event Driven, Domain Driven Design

**Infrastructure** Docker, Kubernetes, RabbitMQ, Kafka, ElasticAPM, Sentry, CI/CD, AWS, NoCode, Lambda, nginx

## EDUCATION

**Deep Learning**, *Nanodegree, Udacity, April '20*

**AWS Certified Solutions Architect - Associate**, *May'19*

**Master/Bachelor of Science in Computer Science**, *University of Kentucky, Lexington, KY* May'06 / Dec'02

## PUBLICATIONS

D. Crasto, A. Kale, C. Jaynes, "*The Smart Bookshelf: A study of camera projector scene augmentation of an everyday environment*", IEEE's Workshop of applications of Computer Vision, Breckenridge, CO, January 5th 2005.

## NOTABLE PROJECTS

- Split a Monolith to an event driven (via RabbitMQ), Service Oriented Architecture using Domain Driven Design principles
- Transitioned our image hosting solution through providers emphasising cost reduction, stability and RUM improvements
- Architect and lead a team to incrementally and seamlessly roll out a core Entity's CRUD functionality to a separate service
- Created batch/real time pipelines/dashboards for our business clients with Snowplow, Kineses, Redshift and ElasticSearch
- SVM Classifier microservice to predict a listing type (taxonomy) by its title