Danny Sylvester Crasto

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EXPERIENCE

Senior Staff Engineer (Staff Engineer: Jun '21-April '22), *dubizzle.com, Dubai, UAE |* May '22 – Present
Lead by example and foster a collaborative environment while working across teams. Contribute to code, review, tech/architecture specs and documentation. Plan, lead and contribute to backend architecture and projects involving new services, migrations of services or SaaS', optimize the platform and fixing bugs. Align on best practices and support the backend guild. Mentor and grow our engineers and improve developer efficiency with better processes, tooling and knowledge. Responsible for backend hiring across our offices in Dubai and Pakistan.

Engineering Team Lead, *dubizzle.com, Dubai, UAE |* Dec'15 – July '21
Manage a cross-functional, agile pack (scrum) to develop requirements and execute technical solutions helping agents and agencies of the property vertical. Maintain and grow the team, liaise with the Product manager, other teams, stakeholders and well as local or global vendors. Review and also add to the backend code base, put out fires on the side and help increase the size of our dubizzle family.

Senior Software Engineer (SWE: Jan '12 - Dec '13), *dubizzle.com, Dubai, UAE |* Jan'14 – Nov' 15
Development, testing, maintenance, upgrading and release of the website a Django's python web framework over a service oriented architecture. Built tools to support internal departments facilitating the growth of the site.

Software Engineer, *Lexmark International Inc, Lexington, KY, USA |* Oct '10 – May '12
Using Agile development methodologies, worked as an embedded C++ system developer in a Linux environment. Developed a RESTful Web services API to provide print, scan and upload services that were used by Flash widgets, Java applications or Web apps running on smart printers.

Software Engineer, *Mersive Technologies, Lexington, KY, USA |* Oct '08 – May '10
Linux/C++ developer for the company's proprietary auto calibration system. The multi- platform, client/server system geometrically corrected and color blended individual, overlapping projectors creating an unified ultra high definition display. Rewrote the firewire camera system, implementing a control and communication protocol adding stability and robustness. Utilized others hardware solutions to manipulate warp/blend data. Conducted software integrations for other rendering engines as well as onsite installations. Implemented a serial utility to control light engines.

Research Engineer Associate II, *Center for Visualization and Virtual Environments, Lexington, KY, USA |* May '06 – Sep '08
Co-designer/developer of the Ambient Visualization Assistant (AVA). A wide area, multi sensor (camera / projector / audio / RFID) environment using customized hardware and software. The C++ code and a swig python wrapped API provided clients with network, database, audio and video services at each node.

SKILLS

Languages	Python, C/C++, Java, Javascript(nodejs), PERL
APIs/Frameworks	Django, flask, DRF, pandas, express, OpenCV, Boost, libdc1394, QT3/4, sockets, multiprocessing, nltk
Databases	MySQL, PostgreSQL, Redshift, Dynamodb, BerkeleyDB, Raik, Redis, ElasticSearch, MongoDB
Operating Systems	Linux, OSX, UNIX, Solaris, Windows
Architecture	Event Driven, Microservies, Service Oriented, Monolithic, DDD
Infrastructure	Docker, Kubernetes, RabbitMQ, Kafka, Jenkins, Github Actions, CI/CD, AWS, GCP, NoCode, Lambda

EDUCATION

Master of Science in Computer Science, *University of Kentucky, Lexington, KY* May '06
Bachelor of Science in Computer Science, *University of Kentucky, Lexington, KY* 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 5-7 2005.

NOTABLE PROJECTS

• *Master's Thesis:* A camera/projector/RFID system to create an augmented reality "Smart bookshelf*"*
• Classify fraudulent sellers on Craigslist. Running statistical analysis on scraped data to find fraudulent items
• Ranked NCAA football teams utilizing *Google's pagerank* algorithm
• SVM Classifier microservice to predict the category of an item given the title
• Utility/Library to detect words from an image using tesseract with opencv's EAST text detector