KRISHNENDU (KRISH) KAR

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Director – Digital Product Development

Leadership in digital (cloud, app, computer vision, AI/ML) product development

- Built team & launch connected product from concept to launch cloud, mobile, UI/UX, DevOps, QA, CS & PM
- Managed IOT projects from concept to launchresidential, industrial & asset tracking - MQTT SparkPlug device, AWS IOT -stream, DynamoDB, lambda, API, mobile
- Trained & deployed computer vision model YOLOV7, RCNN, PoseNet, ResNet, Inception - cloud & local PC
- Lead vehicle control embedded software development for 20+ production launches using MATLAB/SIMULINK
- Author of Mastering Computer Vision with TensorFlow2.x
- US Citizen, DFSS Six Sigma Black Belt

- 15+ years (2005 to current) of technical product & software engineering experience
- 5+ years of experience simplifying complex business operations
- Developed digital minimum viable service (MVS) to collect data from early SAAS adopters
- Launched 10+ B2C IoT products
- 5+ years of experience managing crossfunctional teams & driving standardization
- Author of 20+ patents, 2 iOS apps and 1 book
- Executed multiple software solutions to generate recurring revenues

TechnicalAWS IOT Core, lambda, AppSync API, S3, Cloudwatch, Cognito, DynamoDB, Kinesis, Redshift,KnowledgeSagemaker, TensorFlow, Python, OpenCV, ObjC, Swift, MATLAB, Simulink, Jira, GCS, Azure

PROFESSIONAL EXPERIENCES

Senior Manager Digital Products (B2C) – Kidde - Carrier Corporation. 04/2021 - present

Build digital team and lead connected smart home product execution

Noted Accomplishment:

- Build and managed cloud, mobile, QA and DevOps (Circle CI) team for inhouse IOT development at scale with million plus consumers prepare JD, perform interview, onboard and mentor
- Owned and managed cloud and mobile road map by coordinating with Engineering, MarTech & Quality
- Execute roadmap into Jira by prioritizing Epics, developing long range and Sprint planning, overseeing daily scrum call with 20 team members, eliminating roadblocks and through test automation
- Build digital IOT product architecture and implemented solutions for cloud, web and mobile app.
 - Develop rules to send IOT data to Kinesis stream, lambda, DynamoDB & connect to GraphQL API
 - Developed connected ecosystem of devices using cloud to cloud API integrations in lambda
 - Deliver timely product release through user story, validation, backlog grooming & task execution
 - Develop architecture and access patterns to simplify database from AWS SQL to DynamoDB
 - \circ $\;$ Understand customer issues and provide timely solution to improve retention and product rating
- Architecting solutions for subscription-based service and partnership to generate revenue.
- Resolved customer issues on time, developed customer survey and improved UX solutions.
- Analyzed customer data to improve product positioning and feature improvement.

IoT Technical Project Manager & Solutions Manager | Ayla Networks. 07/2020 - 04/2021

Managed 8 (smart home, kitchen service) projects using Ayla IoT platforms for Linux and ESP 32 devices -BLE WIFI based fan, oven control: (mode, speed, status, temperature, humidity & AQI) Alexa / Google Home

Noted Accomplishment:

- Managed agile project development using GanttPRO, Trello board, Harvest, Jira & Confluence
- Developed IOT connected kitchen solutions to generate recurring revenue for connected kitchen stores
- Use cloud data AI/ML to predict network failure for major cellular company thus saving in millions

Director, Solutions Development | MOBICA, LLC.

Led a team of 5 developers and interfaced with sales to develop AI & IOT solutions. Participated in bid calls and presented compelling presale demo solutions, proposals, project timeline & resourcing.

Noted Project Accomplishment: Developed an E2E IOT & Computer vision platform in Mobica

- Optimized & trained neural network model and deployed in mobile devices for R&D project
- Developed proposal, performed business review and capability analysis and staffed resources
- Coached and mentored employees, participated in onboarding and performance reviews

AI/ML iOS App & TensorFlow Lead | Nity Vision, LLC. Start up.

Led development of optimized deep learning framework for edge computing

Noted Accomplishment:

- Published ADAS & activity recognition iOS app Nity Map & Dash Cam, Stretch Tracker
- Published the book *Mastering Computer Vision with TensorFlow 2.x*
- Optimized and trained CNN model for deployment in edge devices model splitting & parallel computing

General Motors

Engineering Group Manager, Embedded Controls & Software

Engaged in recruiting, career development while implementing DevOps system for continuous delivery.

Noted Accomplishments:

- Managed a team of 15 software engineer including hiring, performance review and 1:1
- Simplified toolchain by using automated methods to save 15 days efficiency gain for software delivery
- Lead chassis technology for ISO 26262 standards including electronic slip control, all-wheel drive control

Product Strategy Manager

- Managed 50+ projects to create solutions to maximize tooling utilization & parts reuse
- Reduced complexity for vehicles by increasing reuse and developing parts solution to generate incremental revenues
- Developed neural network for ADAS steering control, adaptive cruise control, brake control

Product owner, embedded software, Drivability

Managed scalable embedded control system algorithm and technology stack using DevOps & CI/CD for speed control and drivability with MATLAB, SIMULINK, C++, Python for a broad range of GM vehicles.

Noted Accomplishments:

- Managed global delivery of embedded software (team of 50+) using HIL/SIL, DFSS, DFMEA.
- Developed vehicle dynamics control systems based on PID, MPC (model predictive control
- Published 20+ patents on drivability, powertrain, DFCO, and fast speed control.

EDUCATION AND TRAINING

Master of Business Administration, University of Rochester	1999 - 2003
PhD in Mechanical Engineering, West Virginia University	1990 - 1994
Master of Science in Mechanical Engineering, University of Calgary	1988 - 1990
Bachelor of Technology in Mechanical Engineering, Indian Institute of Technology	1984 - 1988

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2005 - 2015

2015 - 2017

2016 - Present

2019 - 2020

2017 - 2019

RELEVANT PUBLICATIONS

https://www.amazon.com/Mastering-Computer-Vision-TensorFlow-2-x/dp/1838827064 https://apps.apple.com/us/app/nity-dashcam-ai-map/id1229479479

https://apps.apple.com/us/app/stretch-tracker/id1557067609