

Prajna KANDARPA

Product Design | Full Stack Engineering | Cloud Ops | Data Science

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Mechatronics (Robotics) Engineer with expertise in software development, product management, technical recruiting, machine learning and full stack development. I've been an early/founding employee at multiple startups (Ubiq Inc., Acerta Systems Analytics, Muse Wearables) and have work experience in the USA, Canada and India. I'm proficient in front end development, backend development, Container infrastructure (Kubernetes), DevOps (AWS, Azure, GCP), technical hiring and project management.

I've been an early / founding engineer at companies working in enterprise productivity (Ubiq, Inc.), machine learning and data science (Acerta Systems, Muse Wearables) and enterprise AI (CognitiveScale, Inc). You should reach out to me if you want to turn ideas dependent on machine learning into software products that can scale to millions of users

COMPETENCIES

Product Development	Technical Architecture, UX Wireframing, Product Roadmaps, Project Management
Technical Management	Jira, Asana, Confluence, Gliffy, Trello
Platforms	Docker, Kubernetes, Rancher
Programming	Python, Javascript, R, Go, Java, Swift, C
Frameworks	Anaconda, Flask, SQLAlchemy, React.js, Node.js, Rancher
Databases	MySQL, PostgreSQL, mongoDB, Redis, ElasticSearch
Development Tools	Emacs, vim, Visual Studio Code, IntelliJ Idea, npm, git, RStudio, Android Studio, XCode
Middleware	Express.js, NGINX, HAproxy, Gunicorn
Operating Systems	Mac OS X, Linux, iOS, Android
Cloud Ops	AWS, Azure, Rancher

EDUCATION

- 2010-2016 Bachelor of Applied Science in Mechatronics Engineering (Hons.), University of Waterloo, Canada
2010 International Undergraduate Scholarship, Faculty of Engineering, University of Waterloo

WORK EXPERIENCE

Since November 2018	Technical Lead Project Management, COGNITIVESCALE, INC, Hyderabad, India <ul style="list-style-type: none">> Cloud Marketplace Deployments for our AI Trust Lifecycle Management Product - Cortex Certifai> Help customers integrate their models into Cortex Certifai to determine AI business risk wrt to bias/fairness, explainability, robustness and regulatory compliance measures> Develop products to use in the platform showcase for Cortex, a proprietary AI/ML lifecycle management service> Instrumented conversational bots with Natural Language Understanding and Dialogue prediction> Designed and managed development for a proprietary data labelling and annotation tool for NLP applications> Mentored employees and interns in software development best practices <div>Python Docker Product Roadmaps Machine Learning Deployment Automation Natural Language Processing Anomaly Detection</div>
November 2018 April 2018	Vice President - Software, MUSE WEARABLES, Bangalore, India <ul style="list-style-type: none">> Recruited and formed the entire software team including Front-end Engineers, Backend Engineers and Android/iOS engineers.> Formulated weekly development plans to fulfill our product roadmap> Collaborated with the Product head to develop UI/UX ideas, feature development and market research> Setup social media analytics for ad optimisation on Google AdSense and Facebook Pixel> Helped optimise our crowdfunding campaigns and secured over \$140,000 worth of pre-orders for our hybrid smartwatches> Designed and lead the development of a bot based user coaching/engagement platform for personal health, fitness and finance <div>Product Development Natural language Processing NFC Payments Mobile Apps Leadership Backend Development</div>

April 2018 Senior Software Engineer, COGNITIVESCALE, INC, Hyderabad, India
 April 2017

- > Built machine learning enabled solutions for clients
- > Developed user interfaces for visualising the business impact of our solutions built for clients
- > Architected backend stacks to scale to hundreds of thousands of users

MongoDB PostgreSQL Python Java Scala Docker Rancher React.js Node.js ES6

June - Dec 2016 Full Stack Engineer, ACERTA SYSTEMS ANALYTICS, Waterloo, Canada
 July - Dec 2015

- > Designed and built web apps, backend services, machine learning models and data processing pipelines during a 14 month stint as **Employee #1**
- > Worked in Javascript, Python (scikit-learn), R(stats, dplyr), Go(fasthttp)
- > Trained new employees in R and Python for data modelling and visualization
- > Project scope finalizations with Fiat Chrysler engineers to deliver solutions for their data analytics

Data Science R Automotive Aeronautical Industrial Monitoring

June 2015 Full Stack Engineer | Video Streaming | OS X, UBIQ, INC, Waterloo, Canada
 March 2015

- > Built an OS X application for streaming wirelessly to enterprise meeting rooms
- > Improved streaming latency by **80%** and worked in Objective-C, C, Cocoa and Xcode
- > Provided customer support as well as on site product installations

OSX Multimedia Streaming FFMPEG XCode Cocoa

January 2015 Diagnostics Engineering Intern | Manufacturing Automation | Hardware Diagnostics, ARISTA NETWORKS, Santa Clara, California
 May 2014

- > Created software based hardware test automation of a new gigabit ethernet switch
- > Collaborated with Hardware, Software and Bootloader teams

Python C Linux PCB Bringup Hardware testing


LANGUAGES

English ● ● ● ● ●
 Telugu ● ● ● ● ●
 Hindi ● ● ● ● ○
 French ● ● ○ ○ ○


HOBBIES

Gym ● ● ● ● ○
 Boxing ● ● ○ ○ ○
 Table Tennis ● ● ● ● ○
 Badminton ● ● ● ● ○

PROJECTS

TALON DRONE DELIVERIES 2015-2016
 <https://talonco.github.io>
 An add-on kit for delivery trucks that enables drone deliveries without massive capital requirements. Responsible for Radio communications, flight controller tuning and route planning backend

Drone Flight Control ArduPilot Raspberry Pi Computer Vision

CROP YIELD PREDICTION FEB - MAR 2016
 [Link to paper](#)
 Evaluated multiple machine learning models including SVM, Neural nets and Random forests to predict crop yields in India from a dataset containing meteorological and geographical features

LaTeX R Data Science Time Series Predictions

REFERENCES

Sai Prasanth
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