Russi Chatterjee

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SYNOPSIS

Engineer with about four years of experience in a wide spectrum of software, from operating systems and embedded software to large scale distributed web backend and analytics systems.

EXPERIENCE IN

Programming languages	Python, Scala, R, C, Javascipt. Also worked with Lua, C++, Java, LaTeX
Reactive frameworks	Node.js, pyev and gevent event-loops, Akka the actor framework for concurrency, Celery the distributed realtime task queue
Web backend frameworks	Express, Django
Data buses	RabbitMQ, ZeroMQ
Data stores	PostgreSQL, Cassandra (multi-datacenter), Redis (high availability cluster), CouchDB, MongoDB
Distributed computing and networks	Apache Storm, Apache Spark, Zigbee/IEEE 802.15.4 distributed network stack
Statistics	Time series analysis, data mining, clustering, causal modelling etc, using Pandas, Numpy, Scipy and R (season, dtw, TTR, zoo, Rserve, topicmodels, rjags, randomForest, RSNNS, etc)
Operating systems kernels	Linux, uITron
Processor Architectures	ARMv7, Tensilica XTensa, 8051 (TI cc2531), RenesasM16C
Frontend libraries	HTML, CSS, Jquery, D3, NVD3 graphing library, Backbone, Bootstrap, Jade templating, underscore/lodash etc
Programming patterns	Reactive patterns, SOA, parallelism and concurrency models, Scaling, Map-Reduce, OOP, Functional programming

EDUCATION

B.Tech in Computer Science, NIT Rourkela   **2006-2010**

- Interested in operating systems, distributed computing and image processing
- Built a distributed high performance cluster based on Debian, openMOSIX and openMPI
- Internship on robust watermarking techniques using Haar wavelets (ISI Calcutta)
- Undergraduate thesis on Computer Vision - Image segmentation http://ethesis.nitrkl.ac.in/1616/

WORK EXPERIENCE

Consultant SSE, Global StealthCo., Pondicherry, India   **(Jul 2014 – Jan 2015)**

Description	Distributed backend and analytics applications
Work done	• Designed backend data paths • Developed Trending system to detect trends in streaming data • Developed Event detection system from streaming data (time series mining)

Senior Software Engineer, MagnetWorks Bangalore, India   **(Oct 2013 – Jun 2014)**

Description	Embedded, Web frontend, backend, analytics, distributed sensor networks, whatever it took.
Work done	• Designed and developed API backend • Designed and developed web application • Designed and developed analytics, time series mining and alerts system • Also worked on zigbee based embedded sensor communication system

Firmware Engineer, Toshiba, Bangalore, India & Ofuna, Japan   **(Feb 2013 – Aug 2013)**

Description	Real-Time Operating Systems board support package, more on the assembly language side.
Work done	• Implemented interrupt and exceptions bindings for uITron OS • Implemented the ABI (application binary interface)

Project Engineer, Wipro Technologies, Bangalore, India   **(Feb 2011 – Feb 2013)**

Description	Worked on software for embedded platforms for automotive electronic systems
Work done	• Developed Linux device driver for LVDS SerDes (Maxim 9240) • Developed a bootloader and remote flashing/updating solution • Developed device driver for LIN data bus • Inter-processor communication over SPI • Integration of TomTom navigation unit

RECOGNITION

- Wipro PES (Product Engineering Services) award for "Best Campus Recruit".
- Holder of "Outstanding performance" rating throughout (highest possible in Wipro).
- "Star of the ODC" award for "Significant Contribution in MY14 Mazda project".
- "Star of the ODC" award for "Significant Contribution in TomTom project".