Pradeep Dantuluri

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Senior Developer/Architect with 10+ years of experience in establishing, managing and leading technical teams.

- **Expertise**: Functional Programming, Micro Services, DevOps, Project Management, Team Building

- **Areas of Interest**: Security, Distributed Systems, High Scalability

- **Technologies**: Java, Scala, RxJava, Play, AWS, Google Cloud, Docker, Kubernetes, Prometheus, Vault, Keycloak, MySQL, MongoDB, ElasticSearch, Redis, RabbitMQ, Android, Javascript, NodeJS, Angular

EXPERIENCE

- **Yantranet**   Hyderabad, India
  Lead Engineer & Architect   *April 2012 - Present*
  - Yantranet is a fully bootstrapped company, and have been cash-flow positive since day one. We are a part of NASSCOM 10K incubator and XLR8 AP accelerator. Our business is based out of CT, USA, with clients all over the country. We have a development center in Hyderabad, India
  - As an early hire, I am part of the core Management team, responsible for back-end stack, hiring, and ensuring high availability at a 24/7 business
  - I am the Architect for all consumer-facing products at Yantranet such as YantraPlatform, YantraSign and ScreenVive. I was leading the team through all stages of development cycle. From feature planning, design, implementation and support
  - I am currently the Lead Engineer for back-end services and responsible for software development and system reliabilty
  - I was the Lead Engineer for our Android , Web Apps before hiring teams and handing over the software development responsibilities.
  - Introduced Functional and Reactive Programming paradigms to the team and helped migrate to RxJava and RxJs
  - Led the migration to a Micro Service Architecture and Kubernetes Deployments within the company, which vastly improved our deployment cycles
  - Migrated from a bespoke auth server to RBAC based Keycloak for fine grained authentication and authorization, including support for OAuth2.0 and OpenID Connect for 3rd party authentication
  - I led a team to setup & maintain a comprehensive DevOps pipeline using Bitbucket, Jenkins, Docker, Kubernetes, Vault, Prometheus, Grafana

  Products

  - **YantraPlatform**: A bespoke IoT platform designed for media intensive applications such as Digital Signage and Kiosks. Allows for monitoring and pixel-level management of thousands of screens spread across the world. https://www.yantranet.com
  - **YantraSign**: A Digital Signage solution that leverages the YantraPlatorm to deliver seamless control over content delivery, across a network of screens. https://yantrasign.com
  - **ScreenVive**: Content as a Service for your Digital Screens. Access a variety of configurable content feeds ranging from news, entertainment, trivia etc to be used on your screens. https://screenvive.com

- **DERI, NUI Galway**   Galway, Ireland
  Research Associate   *August 2008 - September 2011*
  - **Digi.me**: An EU funded research project to develop an Intelligent Trust-enhancing Store of a Users personal information sphere in digital and social environments.
  - **Nepomuk**: A Social Semantic Desktop built on top of KDE which enables a deeper inter-connection of data from various applications using RDF other Semantic Web Technologies
  - **Publications**: I co-authored 4 research papers and a journal in the field of NLP and Semantic Web
  - **Technologies Used**: Java, Python, GWT, RDF, OWL, Research, Academic Writing

- **University of Trento**   Trento, Italy
  Research Intern   *December 2007 - June 2008*
    - **Context based Word Similarity using Wikipedia**: An EASTWeb funded research project exploring the use of Wikipedia for Semantic Analysis. I developed a Term Similarity module using page links, page content and category links within Wikipedia
    - **Technologies Used**: Java, MySQL, XML, J2EE

SIDE PROJECTS

- **Tickscore**   Hyderabad, India
  Technical Co-Founder   *January 2017 – April 2019*
    - An online service helping students prepare for the Civil Services Examination in India. Students could practise either online or using an Android App, against a well-curated set of questions and get detailed analytics on their progress.
    - I designed and developed the backend services.
    - **Technologies Used**: Javascript, NodeJS, ReactJS, ReactNative

- **InMins**   Hyderabad, India
  Technical Co-Founder   *January 2011 – April 2012*
    - A food delivery app created long before mobile apps became prevalent. It was a web-based service, which catered to foodies in Hyderabad, India.
    - I desinged and developed the customer-facing web app and an administration console, for managing daily operations.
    - **Technologies Used**: Java, Spring, Javascript, Bootstrap, Backbone, JQuery

EDUCATION

- **Indian Institute of Information Technology (IIIT)**   Allahabad, India
  Bachelor of Technology in Information Technology; GPA: 7.98/10.0   *2004 – 2008*
    - **Universal Digital Library (UDL)**: Involved with research and development of tools and technologies required for Indian digital libraries in collaboration with CMU, USA and IISc, India
    - **Technology Development in Indian Languages (TDIL)** : Worked towards development of software modules for various NLP tools tailored for the Indian Languages, particularly involved with POS Tagging (Parts of Speech) and NER (Named Entity Recognition)

PULICATIONS

- **Engineering a Controlled Natural Language into Semantic MediaWik**
  Contolled Natural Language Extended Workshop 2011
  Pradeep Dantuluri, Brian Davis, Pierre Ludwick, Siegfried Handschuh

- **Towards Controlled Natural Language for Semantic Annotation**
  International Journal on Sematic Web and Information Systems 2010
  Pradeep Dantuluri, Brian Davis, Siegfried Handschuh, Hamish Cunningham

- **A Use case for Controlled Languages in Ontology based Knowledge Managemen**
  International Language Resources and Evaluation, 2010
  Pradeep Dantuluri, Brian Davis, Siegfried Handschuh

- **On Designing Controlled Natural Languages for Semantic Annotation**
  Workshop on Controlled NaturaLanguage for Semantic Annotation, ESWC 2009
  Pradeep Dantuluri, Brian Davis, Siegfried Handschuh, Hamish Cunningham

- **HMM-based Language-independent POS Tagger**
  IICAI 2007
  Pradeep Dantuluri, Rakesh Masabattula, Ratna Sanyal