

Rajashekar Chintalapati

Software Engineer

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📄 SUMMARY

I started my software engineer journey over 15 years ago. I have been working on various e-commerce platforms. I am interested in developing software applications, curious about upcoming technologies, and a constant learner.

⚙️ SKILLS

Languages: Python, C++, C, Java, JavaScript, HTML, CSS, Bash

Concepts: Machine Learning, Deep Learning, Computer Vision, Shell Scripting

ML Frameworks: Pytorch, Tensorflow, Keras, ONNX, Scikit, Pandas, Numpy, Jupyter

Web Frameworks: Flask, Django, Express.js, Node.js, CANJS, ReactJS, TensorflowJS, OnnxJS, JQuery, Tomcat, JBoss, Weblogic

DB Frameworks: SQL, PostgreSQL, NoSQL, Oracle

Cloud: Kubernetes, Istio, Microsoft Azure, Google Cloud Platform, AWS, Torbit, Akamai

Other: Apache Airflow, CI/CD pipeline, Splunk, Docker, Jenkins, \LaTeX , Vim, Emacs

🎓 EDUCATION

Masters in Computer Science (Jan 2006 - Dec 2007)

New Mexico State University, Las Cruces, NM, USA

Project: Concert Locator - Created web application with Google map to locate concerts and buy tickets.

Java JQuery

Research: Collaborative Virtual Environment - Created a 2D Map of the university's virtual environment so students can locate and interact together.

Unicon SVN Bash

Bachelors in Computer Science (2001 - 2005)

Anna University, TN, India

💻 WORK

Walmart, San Bruno, CA / May 2013 - Present

Principal Software Engineer

- **In-stock Alerts** - Alert the user when the item is in stock.

Python FastAPI Azure SQL

- **Automation using Deep Learning** - A test automation tool is built on a deep learning model. The model was trained on screenshots of sections of the Samclub.com website, using Pytorch. Trained and Deployed (using Flask) on GCP, this model detects any UI issues. This model is converted to ONNX, and the inference was made on NodeJS, where test automation scripts run.

Pytorch CNN GCP Flask ONNX NodeJS

- **Legato** - A merchandising tool was built, which will be used to deploy items to the site. Used Airflow to migrate legacy data to a new platform (Django with PostgreSQL). Support for bulk uploads and constant sync between legacy and new systems. I have created a complete CI/CD pipeline from dockerizing the application to deploying it to the cloud.

Airflow Django PostgreSQL Docker CI/CD

- **Service Subscriptions** - A subscription hub was created to show or subscribe to services like Hulu, Pandora, and Showtime and will get a discount using Sams Club Membership. Proposed design on how to implement, provided architecture diagrams, documentation.

Front End uses ReactJS with NodeJS as the backend.

ReactJS Java NodeJS Torbit Akamai

- **Cashback** - Sam's Club users who earned cash back from Synchrony credit cards can be used to purchase online. Provided complete design and led the team, done code reviews and done coding. Front End uses ReactJS with ATG Java as backend.

ReactJS Java JBoss ATG Splunk

- **Cart and Checkout** - I migrated the Samclub.com cart and checkout legacy system to new systems. I led the cart and checkout team, used ReactJS to develop a new UI, and have provided new backend APIs through Node.js. Created CI/CD pipeline and deployed application in Azure Cloud using Kubernetes as orchestration container.

ReactJS NodeJS Azure Kubernetes

- **Easy order** - An application built for bulk users who can immediately purchase items based on history or excel import. Developed UI using CANJS. Developed backend APIs using JAVA ATG Framework.

CanJS Java Jenkins

- **Linux and ATG Migration** - Legacy servers are migrated from metal boxes to the cloud, worked on CI/CD pipelines, and created migration scripts. The legacy application framework is migrated to new versions and worked on Oracle SQL migration scripts.

Oracle JBOSS Linux ATG VM

Walgreens, Deerfield, IL / Feb 2011 - May 2013

Senior Software Engineer

- **Site Integration and Same day delivery** - Web pickup site (webpickup.walgreens.com) is merged into the main site (walgreens.com) by giving the user the flexibility to select "ship to you", "pickup at store" and "Local delivery" (ship from store to the user) fulfillment options in walgreens.com. Used Jquery for UI and ATG Java for the backend.
Jquery Java REST API Weblogic Oracle
- **Geo-Targeting** - is based on the user location to have a better shopping experience and promote web pickup. Did requirement analysis, provided design, and did proof of concepts to know whether requirements are feasible in the current environment.
SOAP Java ATG Ant
- **PayPal Enhancements** - To optimize the customer checkout experience and secure payments, PayPal APIs are enhanced. This project is to leverage those enhancements for express checkout in Walgreens. Used Jquery for UI and ATG Java for the backend.
Java Jquery ATG Weblogic

AT&T, Bothell, WA / May 2008 - Jan 2011

Software Engineer

- **CA Migration** - Migrate merchant software from ACC to ATG Merchandising Tool. Setup Dev, QA, Prod CA Environment. Customized out-of-the-box ATG BCC as per requirements.
Java ATG WebLogic Solaris
- **Weblogic Migration** - Upgrade the AT&T Business Portal from ATG 2006.3 to ATG 9 and the supported platform. I migrated JSPs with JBOSS Migration Tool to remove double quotes within double-quotes. Migrated data sources and transaction manager from ATG to Weblogic.
Java ATG Oracle JSP
- **Premier Recommendations** - Provide an opportunity for B2B customers to explore and purchase the most popular products and services recommended by AT&T Mobility in the Premier Online Store and implement complete end-to-end using Jquery and ATG Java.
Java JQuery Oracle SQL

OTHER PROJECTS

- **Indicate: Machine Translation** - Created a python package that translates Indic text to English using the

Dakshina dataset.

- LSTM Seq2Seq Encoder-Decoder Keras
- **Pranaam: Text classification** - Created a python package that can predict religion and caste-based on model trained on Bihar Land Records data and plot-level land records.
Tensorflow Word Embedding Keras
- **Wake Word Detector** - An open-source custom wake word detector that will take audio as input and, once the sequence of words is detected, prompts the user.
Pytorch CNN Flask TensorflowJS AWS
- **Image Classification** - Created and deployed model to classify Images using the cifar dataset.
GCP ONNX Pytorch CNN Computer Vision
- **TV Script Generator** - Created a model to generate TV scripts using the Seinfeld dataset.
NLP LSTM Pytorch
- **Face Generator** - Created a model to generate fake faces.
GAN Pytorch

AWARDS

- **Walmart Innovation Jam CREAM award** - Implemented Customer Appeasement application, used Random Forest ML on user's past data to know by what appeasements. Users can stay as a member instead of losing membership.
- **FourthBrain Top Project Award** - Implemented Custom Wake word detector using Mozilla voice dataset and used **CNN, TensorflowJS, Pytorch, ONNX, AWS, Web Sockets**.

CERTIFICATES

- **Machine Learning Engineer (2021)** - FourthBrain
- **Deep Learning (2021)** - Udacity
- **Machine Learning (2020)** - Coursera
- **Machine Learning Engineer (2020)** - Udacity
- **Machine Learning Introduction (2020)** - Udacity
- **AI Programming with Python (2020)** - Udacity
- **Getting Started with GKE (2019)** - Coursera
- **Java Developer (2019)** - Udacity
- **Mobile Web Specialist (2019)** - Udacity
- **Front End Web Developer (2019)** - Udacity
- **Full Stack Web Developer (2018)** - Udacity
- **React (2017)** - Udacity