Devendra Kumar Tewari

Résumé

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1 Contacts

- Email
- GitHub
- LinkedIn
- Twitter

2 Work Experience

2.1 Software Engineering Specialist at CESAR (2010 to Present)

2.1.1 Motorola Solutions

UK Emergency Service Network

- Interim Provisioning Solution (IPS)
    - Active Directory, C#, Entity Framework 6, Git, GitLab, HTTP/S, Kodiak MCPTT, LDAP, SOAP 1.1, SoapUI, SQL Server, TLS 1.2, WCF, WPF

WAVE PTT

- Integration with Data MOTOTRBO Network Interface Service
    - C#, HTTP/S, IIS, openSIPS, SIP, TCP/TLS, UDP, WAVE 5000, WPF
- Thin Client Protocol dissector in Lua for Wireshark
- Third-party application developer support

Intelligent Middleware

- Intelligent Middleware ASTRO and MOTOTRBO Device Simulator
    - C#, HTTP, ONC RPC, SMTP, WebSocket, Windows Forms, XMPP
- Intelligent Middleware REST API Test Tool
    - C#, HTTP, WebSocket, Windows Forms, XMPP
- Sample code for Intelligent Middleware and WAVE 7000
    - Android, Bluetooth SPP, C#, Java, OAUTH 2, Swift, WebSocket, Windows Forms, iOS
- Speaker at APPFORUM conferences and developer workshops in the Americas and EMEA

- Brazilian Army
  - Django, Python, SIP, WebRTC

Documentation as Code

- Word to Markdown proof of concept
  - Custom $LaTeX$ template for Pandoc
  - Sequence charts
  - Docker image with Mermaid.js, Pandoc, and TeX Live

ASTRO P25

- Option Board Reference Hardware and Software
  - ATmega32U4, Altium Designer, C, C#, Fritzing, Windows Forms, Wiring
- Option Board Capture Tool
  - C#, TotalPhase Beagle USB Analyzer, Windows Forms
- Protocol dissectors in Lua for Wireshark
- Third-party application developer support

TETRA

- TETRA PEI Capture Tool
  - C#, TotalPhase Beagle USB Analyzer, Windows Forms
- Remote Display Control Sample Application
  - C#, Run-Length Encoding, Windows Forms
- Protocol dissectors in Lua for Wireshark
- Speaker at APPFORUM conferences in EMEA
- Third-party application developer support

MOTOTRBO

- Configuration Advisor Tool
  - C#, Windows Forms
- System Design Tools
  - C#, CSS, HTML, JavaScript, Windows Forms
- Generic Option Board Flash Tool

  - – C#, Windows Forms
  - Option Board Capture Tool
    - – C#, C++, Saleae Logic Analyzer, Windows Forms
  - Generic Option Board Fixture
    - – Altium PCB Designer
  - Site Survey Tool
    - – Android, C#, Windows Forms, Xamarin
  - Protocol dissectors in Lua for Wireshark
  - Sample Applications
    - – Arduino, Atmel AVR32, Bluetooth LE, C, C++, C#, CSS, FreeRTOS, HTML5, JavaScript, Linux, RFID, Raspberry Pi, Ruby, Sensors, Windows Forms
  - Speaker at APPFORUM conferences in the Americas and EMEA
  - Third-party application developer support

2.1.2 Fiat Chrysler

  - Development of low cost connected car mobile applications
    - – Android, BeagleBoard, CAN bus, Java, Kvaser CAN Analyzer, Linux, Objective C, iOS

2.1.3 Hewlett Packard Labs

  - Distance education application with multi-modal interactions for HP Labs, Bangalore
    - – C, GStreamer, JavaScript, Linux, Node, Raspberry Pi

2.2 Software Development Supervisor at Modular Mining Systems (2008 to 2010)

Development of ProVision™ shovel machine guidance system

  - Bucket Positioning System
    - – C#, Inclinometers, Tilt Sensors
  - Surface Raster to Triangulated Irregular Network
    - – C#, Excel 3D Charts
  - Dual GPS Positioning with Differential Error Correction
    - – Helmert Transformation, NMEA, Telnet, TopCon GPS, WGS84
  - Performance Optimization

– C#, SQL Server, Windows CE
- Team management

2.3 Engineering Manager at CESAR (2007 to 2008)

- Pre-sales
- Project resource management
- Performance appraisals
- Process improvement

2.4 Senior Software Engineer at CESAR (2002 to 2007)

- Push-To-Talk over Cellular (PoC) client for Samsung, Campinas
    – ARM, C, CVS, Eclipse, IMS, Java, Linux, Mantis Bug Tracker, OMA PoC, SIP/SDP, SQL, XML, XCAP
- J2ME Games for LGE
    – CVS, Eclipse, Java, Tile Studio
- OSGi R4 TCK for IBM
    – Eclipse, Java, OSGi
- Pre-sales Application for Embraer, SJC
    – 3D Modeling, Apache FOP, Apache Struts 2, Bugzilla, CVS, Flash, HSQLDB, HTML, Hibernate, J2EE, Java, JavaScript, Oracle, SQL, Tomcat, Viewpoint Media Player, XSL:FO, XSLT
- Platform 2000 Development for Motorola, Campinas
    – C, C++, Java, Linux
- End to end Development for Motorola, Campinas
    – Apache Tomcat, CVS, ClearCase, J2EE, J2ME, JBoss, Java, Linux

2.5 Senior Software Engineer at Unisys (2001 to 2002)

- Software requirements, design and development of security and access control, and other web applications
    – DB2, HTML, J2EE, Java, JavaScript, UML

2.6 Senior Software Engineer at ITECI (2000 to 2001)

- Web applications, Storm Consulting, London
    - HTML, JavaScript, VB 6, XSLT
- LINC II Course Instructor, Bompreço, Recife
- XML Course Instructor, BCP, Recife
- Java Course Instructor
- Banking applications for Caixa Economica Federal, Brasilia
    - ASP, Erwin, HTML, Java, JavaScript, Linux, PHP, SAP Sybase PowerDesigner, SQL Server, VB 6
- Financial application for Banco Opportunity, Rio
    - ASP, SQL Server, VB 6, Windows

2.7 Software Engineer at Enfase (1998 to 2000)

- Banking Applications, Bandepe
    - COBOL, LINC II, SQL Server, Unisys A Series, VB 6, Windows, XGEN
- Client-server application, Frigorífico Ibérico
    - Crystal Reports, SQL Server, VB 6, Windows NT

2.8 Software Engineer at Tata Infotech/Unisys (1996 to 1998)

- Year 2000 consultancy at Toysrus (New Jersey), Bompreço (Recife), and Bancafé (Bogota)
    - ALGOL, C, COBOL, LINC II, Unisys A Series, XGEN
- DMS II course instructor
- COBOL 74 course instructor

2.9 Student Instructor at RAIT (1995)

- Organizer of TECHNOVATE 1996
- Organizer of C programming workshop
- C programming course instructor
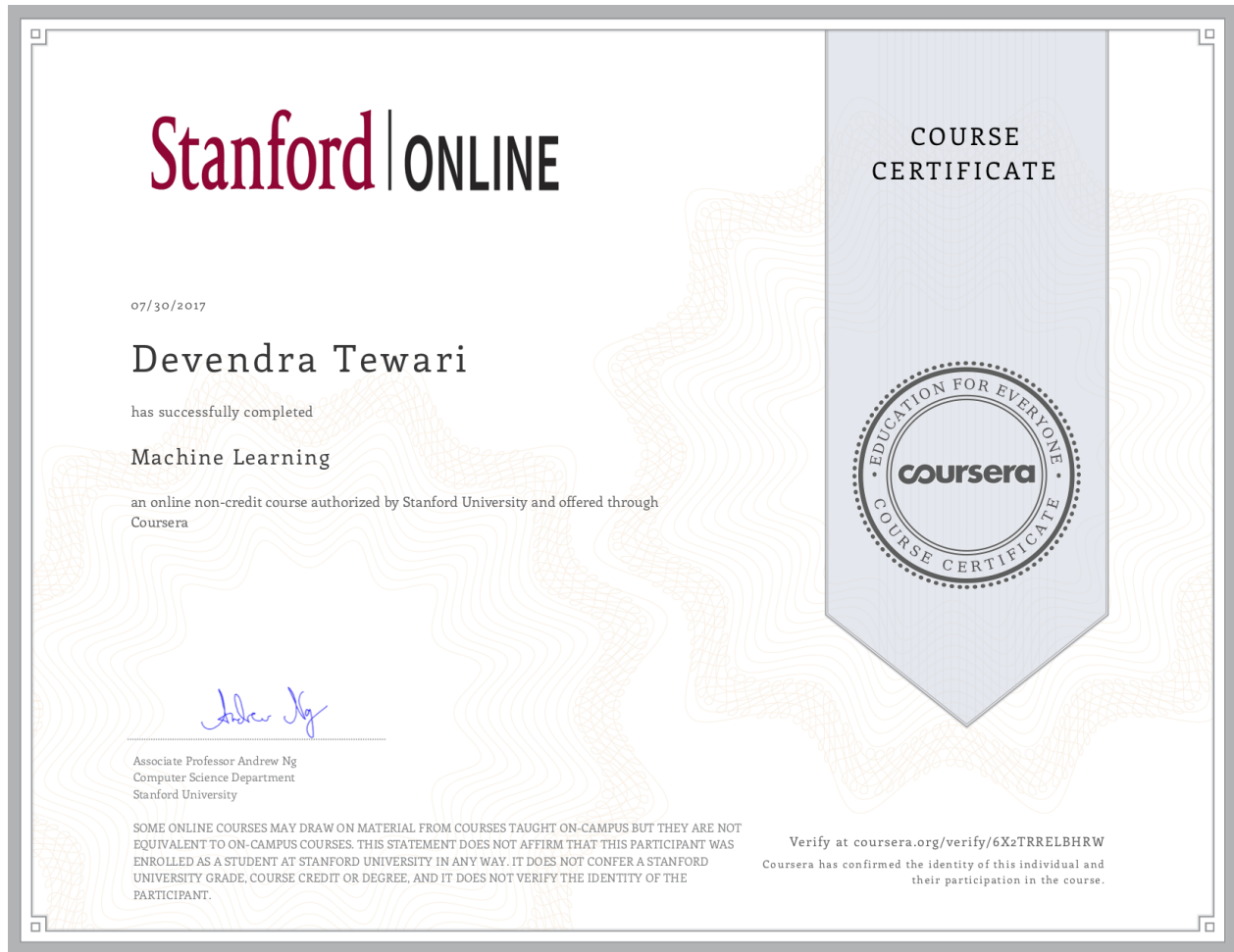
3 Education and Courses

- **WAVE Certified Integration Engineer**, 2018, Motorola Solution
- **Xamarin Forms: Build Native Cross-platform Apps with C#**, 2018, Udemy
- **Algorithms I**, 2017, by Princeton University on Coursera
- **Machine Learning**, 2017, by Stanford University on Coursera
- **New Trainee Program**, 1996, Tata Unisys
- **Bachelor of Engineering in Electronics**, 1992-1996, RAIT, University of Mumbai

4 Languages

- English
- French (studied at school, lack fluency)
- Hindi
- Portuguese
- Spanish (studied when living in Colombia, lack fluency)

5 Attachments

5.1 Machine Learning

Figure 1: Machine Learning by Stanford University on Coursera

Follow link to see grade achieved.

5.2 Portuguese Proficiency

Figure 2: Celpe-Bras Brazilian Portuguese Proficiency Certificate