Devendra Kumar Tewari

Résumé

2018-02-15

1 Work Experience

1.1 Software Engineering Specialist at CESAR (2010 to Present)

1.1.1 Motorola Solutions

Development of guidance and tools for developers of critical communication applications based on land mobile radio and broadband systems

Documentation as Code

- Word to Markdown
- Pandoc automation using Docker

WAVE 5000

- Third-party application developer support
- Wireshark Dissectors in Lua

Intelligent Middleware

- Intelligent Middleware Device Simulator
    - C#, HTTP, ONC RPC, SMTP, WebSocket, Windows Forms, XMPP
- Intelligent Middleware REST API Test Tool
    - C#, HTTP, WebSocket, Windows Forms, XMPP
- Sample Applications for Intelligent Middleware
    - Android, Bluetooth SPP, C#, Java, OAUTH 2, Swift, WebSocket, Windows Forms, iOS
- Speaker at APPFORUM conferences and developer workshops in Americas and EMEA
- Brazilian Army
    - Django, Python, SIP, WebRTC

APX™

- Third-party application developer support
- 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
- Wireshark Dissectors in Lua

DIMETRA™

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

MOTOTRBO™

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

1.1.2 Fiat Chrysler

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

1.1.3 Hewlett Packard Labs

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

1.2 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

1.3 Engineering Manager at CESAR (2007 to 2008)

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

1.4 Senior Software Engineer at CESAR (2002 to 2007)

- Push-To-Talk over Cellular (PoC) client for Samsung
  - ARM, C, CVS, Eclipse, IMS, Java, Linux, Mantis Bug Tracker, OMA PoC, SQL
- 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

1.5 Senior Software Engineer at Unisys (2001 to 2002)

- Security and Access Control application for SEFAZ-PE
  – DB2, HTML, J2EE, Java, JavaScript, UML

1.6 Senior Software Engineer at ITECI (2000 to 2001)

- Web applications for Storm Consulting, London

  – HTML, JavaScript, VB 6, XSLT

- XML Course for BCP

- 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

1.7 Software Engineer at Enfase (1998 to 2000)

- Banking Applications for Bandepe
  – COBOL, LINC II, SQL Server, Unisys A Series, VB 6, Windows, XGEN
- Client/Server application at Frigorifico Iberico
  – Crystal Reports, SQL Server, VB 6, Windows NT

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

- Year 2000 consultancy at Bancafe, Bogota
- Year 2000 renovation at Bompreco, Recife
  – COBOL, LINC II, Unisys A Series
- Year 2000 renovation at Toysrus, New Jersey
  – ALGOL, C, COBOL, LINC II, Unisys A Series, XGEN

2 Education and Courses

- **Xamarin Forms: Build Native Cross-platform Apps with C#** 2018, Udemy
- **Algorithms I** 2017, by Princeton University on Coursera
- **Machine Learning** June to July 2017, by Stanford University on Coursera
- **Bachelor of Engineering in Electronics** 1992 to 1996, at Ramrao Adik Institute of Technology, University of Mumbai

3 Hobbies

- Making hardware
- Photography
- Reading Sci-Fi
- Writing

4 Languages

- Portuguese
- English
- Hindi

5 Attachments

5.1 Brazilian Portuguese Proficiency

Figure 1: Celpe-Bras Brazilian Portuguese Proficiency Certificate
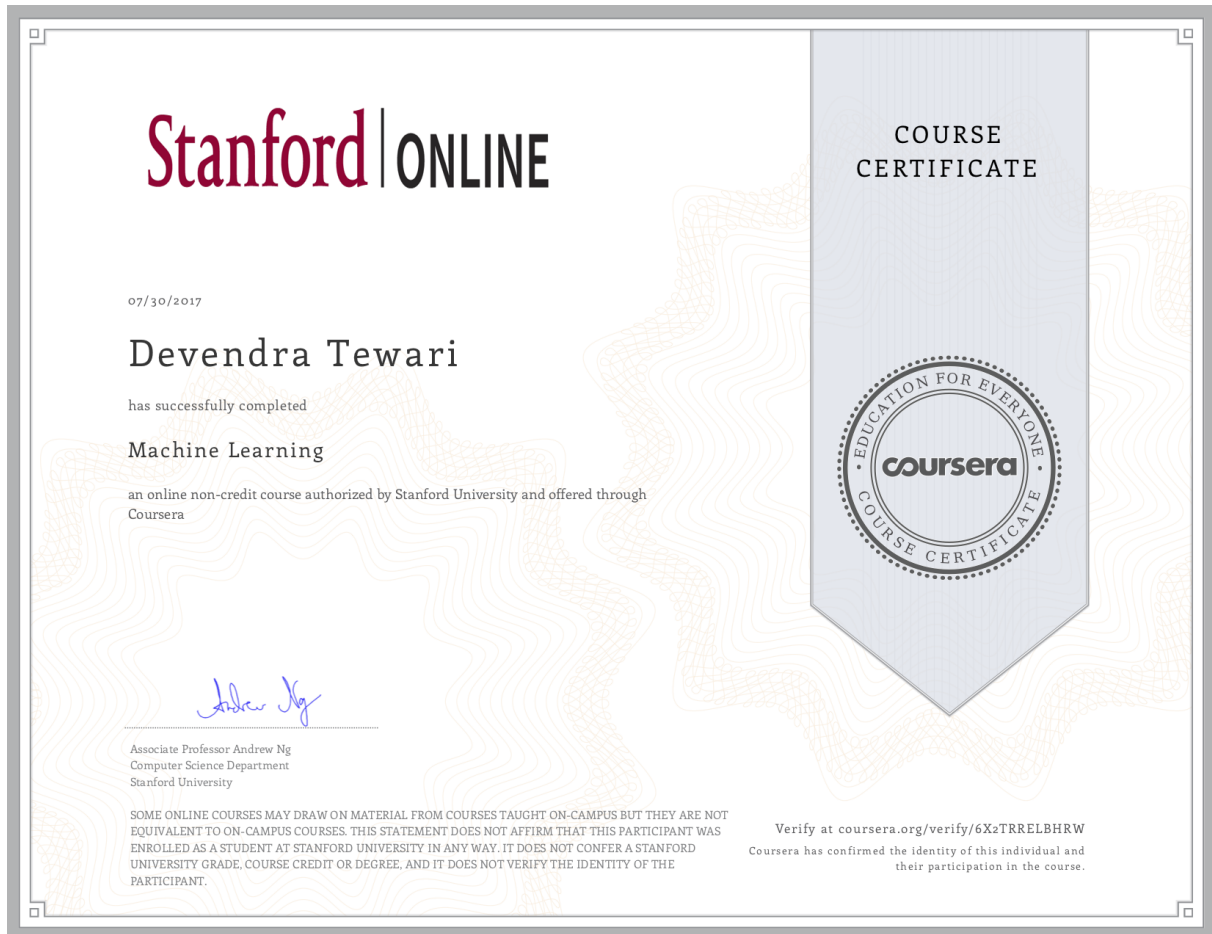
5.2 Machine Learning

Figure 2: Machine Learning by Stanford University on Coursera

Follow link to see grade achieved.