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| [www.ankitrai.com](http://www.ankitrai.com) | **Ankit Rai** | | | +91-8308079098  a2.ankitrai@gmail.com |
| **Employment** | | | | |
| **Engineer** | **Eaton** | | | Jan 2016 – Present |
| Project: Power Xpert Gateway 900   * Developed an expression evaluation API in JS extending Dijkstra’s two stack algorithm reducing the overall application data access and process time from devices by 40%. * Leading a team of 3 developers. | | | | |
| **Subject Matter Expert** | Amdocs | | | May 2015 – Jan 2016 |
| Project: Telefonica |  | | |  |
| * Developed procedure analyzer application which gave visual representation of the database procedure workflows resulting in reduced analysis time and better maintenance. | | | | |
| **Systems Engineer** | **Tata Consultancy Services Limited** | | | **Dec 2012 – Apr 2015** |
| **Project:** Spectrum - Gemological Institute of America |  | | |  |
| * Implemented core grading module of the application. | | | | |
| **Software Design Engineer, Intern** | | Microsoft Corporation | Summers 2001 – 2003 | |
| Visual Studio Core (Summer 2003)   * Implemented a user interface for the VS open file switcher (ctrl-tab) and extended it to tool windows. * Created service to provide gradient across VS and VS add-ins. Optimized service via caching.   Programmer Productivity Research Center (Summers 2001, 2002)   * Built app to compute similarity of all methods in a code base; reduced time from O(*n*2) to O(*n* log *n*). * Created test case generation tool which creates random XML docs from XML Schema. | | | | |
| **Education** | | | | |
| **Philadelphia, PA** | **University of Pennsylvania** | | | **Fall 2000 – May 2005** |
| * M.S.E. in Computer and Information Science, May 2005. GPA: 3.6 * B.S.E. in Computer Science Engineering with Minor in Mathematics, May 2005. In-major GPA: 3.4. * Graduate Coursework: Software Foundations; Computer Architecture; Algorithms; Artificial Intelligence; Comparison of Learning Algorithms; Computational Theory. * Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp. Architecture; Engineering Entrepreneurship; Calculus III. | | | | |
| **Technical Experience** | | | | |
| **Projects** | | | | |
| * **Multi-User Drawing Tool** (2004). Electronic classroom where multiple users can view and simultaneously draw on a “chalkboard” with each person’s edits synchronized. C++, MFC * **Synchronized Calendar** (2003 – 2004). Desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users. C#.NET, SQL, XML * **Operating System** (2002). UNIX-style OS with scheduler, file system, text editor and calculator. C | | | | |
| **Additional Experience and Awards** | | | | |
| * **Instructor (2003 – 2005):** Taught two full-credit Computer Science courses; average ratings of 4.8 out of 5.0. * **Third Prize, Senior Design Projects:** Awarded 3rd prize for Synchronized Calendar project, out of 100 projects. | | | | |
| **Languages and Technologies** | | | | |
| * C++; C; Java; Objective-C; C#.NET; SQL; JavaScript; XSLT; XML (XSD) Schema * Visual Studio; Microsoft SQL Server; Eclipse; XCode; Interface Builder | | | | |