

# JOY DUTTA

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## Summary

- 2 years of engineering Web2.0 applications at Yahoo! Finance. Worked with Javascript/ AJAX/ DHTML frontend and C++/ XML/ XSLT backend.
- Regular participation in hack days at Yahoo!. Did rapid prototyping of mobile applications for both J2ME/MIDP and iPhone platforms.
- Extensive experience (4+ years) in software development using Java technology. Last major project involved building an online application system for Stony Brook University.
- Extensive experience (5+ years) in C/C++ in Linux platform with excellent debugging skills. Good familiarity in applying Design Pattern principles in large academic projects (including algorithm implementations).

## Education

- **SUNY at Stony Brook**—Stony Brook, NY  
*MS in Computer Science (August 2003 – Dec 2005), GPA: 3.59 / 4*
- **Indian Institute of Technology**—Kharagpur, India  
*B.Tech in Computer Science and Engineering (Sep 1997 – May 2001), CGPA: 8.47 / 10*

## Technical Skills

- **Platforms** : Linux, Solaris, Windows, DOS
- **Languages** : C, C++, Javascript, Perl, Java, Shell-scripts, SQL, PHP
- **Tools/API** : XML, XSLT, XPath, Servlets, JDBC, JSP, AJAX/DHTML
- **Databases** : MySQL, Oracle
- **Others** : OpenGL, Lex, Yacc, L<sup>A</sup>T<sub>E</sub>X

## Professional Work Experience

- **Yahoo! Inc**—Sunnyvale, CA  
*Technical Yahoo! (Jan 06 - Current)*
  - Developed/Enhanced finance modules for My Yahoo!. Used Javascript, CSS, XSLT
  - Developed a backend/frontend framework of autocomplete for symbol lookup and provisioning for usage by other Yahoo! properties. Used C++, STL, Javascript
  - Developed the AJAX ads framework in Yahoo! finance dynamic charts. Regular enhancements of dynamic charts. Used Javascript, XSLT
  - Developed a framework for streaming quotes in the Yahoo! finance pages. Used Javascript, AJAX/DHTML
- **Yahoo! Inc**—Sunnyvale, CA  
*Summer Intern (Summer 05)*
  - Developed the first prototype of a Financial Trading Decision Engine - a tool to make informed decisions to buy and sell stocks using technical indicators. Used C++, Java, AJAX/DHTML
  - Developed the first prototype of streaming quotes in browser. Used Javascript, AJAX/DHTML
- **Computer Science Dept, SUNY Stony Brook**—Stony Brook, NY  
*Graduate Assistant (Spring 05, Fall 05)*
  - Developed the Stony Brook University online graduate application database and web application in a team of two. Extensive use of JSP, Servlets, JavaBeans and JDBC as frontend, and Oracle as the RDBMS backend.

- **Secure Systems Lab, CS Dept, SUNY at Stony Brook**—Stony Brook, NY  
*Research Assistant (Summer 04)*
  - Added features and scalability to RPMShield, a secure software installer for RPM packages in Linux.
- **Strand Genomics**—Bangalore, India  
*Software Engineer (June 02 – July 03)*
  - Development of custom high-end software tools for datamining in the field of bio-informatics:
    - \* **Sarani Goldminer** : Designed and implemented the front end of an Oligo Design Tool using Java. Used Java Swing for the GUI and JDBC to interface the MySQL database backend.
    - \* **Abgenix** : Implemented a pluggable, web-based Parameter Setting Library for efficient management of bio-algorithm parameters. Used Java, XML and XPath.
- **Cisco Systems**—Bangalore, India  
*Software Engineer (July 01 – May 02)*
  - Worked in the **IOS** support group for the high-end **Cisco 7500** series routers. Had first exposure on the internals of a Real-Time OS. Reproduced and fixed several bugs in different versions of the IOS.
- **MicroSystem Foundations**—Calcutta, India  
*Freelance Developer (Summer 2001)*
  - Designed and implemented a **Fingerprint Recognition based access control system**, with all the device drivers for the components written in C. The company generated substantial revenue from this product.
- **MicroSystem Foundations**—Calcutta, India  
*Summer Intern (Summer 2000)*
  - Developed a **Network management suite** in VB to communicate with barcode based card readers and collect attendance data from a complex network of such devices. The company generated substantial revenue from this product.

## Academic Achievements

- All India Rank of **696** in the prestigious **IITJEE** exam, 1997
- State Rank of **13** in the **West Bengal JEE** exam, 1997
- Got admission in **ISI** (Indian Statistical Institute)

## Extra-curricular Activities

- Motorcycle touring, Photography and Woodworking