

## SRIRAM GOPAL

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### OBJECTIVE

Entry level Software Engineer (Full-time)

### VISA STATUS

F-1 with one year of Optional Practical Training (OPT)

### EDUCATION

- **M.S., Computer Science and Application** (Expected May '08) GPA: 4.0/4.0  
Virginia Polytechnic Institute and State University, USA
- **B.E., Computer Science and Engineering** (Jul '02 – May '06) GPA: 9.31/10.00  
PSG College of Technology, India

### EXPERIENCE

- **Engineering Intern at Qualcomm™ Corporate R & D**, San Diego, USA (May '07 – Aug '07)
- **Graduate Research Assistant** in the Laboratory of Advanced Scientific & Computing Applications of the Dept. of Computer Science at Virginia Tech under Prof. Layne Watson (Aug '06 – May '07)
- **Engineering Intern at IBM™ Software Labs**, Bangalore, India (Dec '05 – May '06)

### PUBLICATIONS

- “An Emphasis on the need for IDE/ITE – A Step ahead into Modeling Technology”, 4<sup>th</sup> National Conference on Advanced Computing (NCAC '04), India, 2004

### GRADUATE RESEARCH

- **Thesis:** “Efficient delta calculation for object graphs in distributed computing”  
**Advisor:** Prof. Eli Tilevich  
My thesis focuses on developing a middleware framework for updating the state of distributed object graphs in-place by efficiently calculating and transmitting the *delta*. Consequently, this approach minimizes bandwidth usage, which is one of the key factors in determining the network speed. My current work involves studying the effectiveness of the approach in enabling a more powerful *call-by-copy-restore* semantics in Java RMI.

### INDUSTRIAL PROJECTS

- Qualcomm Corporate R&D  
**BDEFGenXML:** A tool contained in the Universal Diagnostic Monitor (UDM) client suite for parsing payload in BDEF and converting it to XML and vice-versa
- IBM Software Labs  
**Rendezvous:** A client platform for a resource-constrained and intermittent connectivity environment to facilitate collaboration and collective-content authoring

### ACADEMIC PROJECTS

- **JRPC:** A JavaScript RPC framework to facilitate centralization of application logic and automated session management for JavaScript applications
- **PF-Tracer:** A per-process page fault tracing utility for Linux developed using User Mode Linux (UML)
- **VT-RPC:** A simple web service infrastructure based on XML-RPC
- **H-MAP:** A novel symmetric key cryptographic algorithm with variable plain text size encryption
- **Model Driven Architecture (MDA) – A Step Ahead into Modeling Technology:** A Technical Report involving the prototype design of an IDE/ITE for inter-model transformations
- **Instant-Connect:** A secure intranet instant messenger service

## HONORS AND ACHEIVEMENTS

- **Tata Consultancy Services Gold Medallion** - Best Outgoing Student of the Class of 2006 in the Department of Computer Science & Engineering, PSG College of Technology
- Nominated for the **Best Project Award** in the Department of Computer Science during Spring 2006
- Ranked first in the Department of Computer Science & Engineering in the Spring 2003 Semester
- Recipient of “**The Gold Standard**”, “**The Silver Standard**” and “**The Bronze Standard**” of the Duke of Edinburgh awards (1999 – 2001)

## COMPUTER SKILLS

- **Languages:** C, C++, Java, J2EE, SQL, HTML, JavaScript
- **Operating Systems:** MS Windows, Linux, UNIX, Solaris
- **Technologies:** OSGi, MDA, UML, XML, SOA, Eclipse, Visual Studio .NET
- **Software Packages and Tools:** MS-Office, Oracle SQL\* plus, Apache Derby, Rational Software Modeler, Rational ClearCase

## SELECTED COURSES

Operating Systems<sup>‡</sup>, Theory of Algorithms<sup>‡</sup>, Database Management Systems<sup>‡</sup>, Internet Programming<sup>‡</sup>, Computational Social Science<sup>‡</sup>, Data Structures, Software Engineering, Computer Networks, Internet Protocols, Computer Organization, Object Oriented Analysis and Design, Compiler Design

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<sup>‡</sup> Indicates a Graduate level course