

Education	<p>M.S., Computer Science and Applications – concn. in Information Visualization – May 2003 Virginia Polytechnic Institute and State University (Virginia Tech) – Blacksburg, VA Overall GPA: 3.85/4.00</p> <p>B.S., Computer Science – minor in Math – Summa Cum Laude and in Honors – May 2002 Virginia Polytechnic Institute and State University (Virginia Tech) – Blacksburg, VA Overall GPA: 3.90/4.00 – Rank: 2 of 142</p>
Skills	<p>Programming Languages: Java, JavaScript, C/C++, Python</p> <p>Current Skills: RPC, ML, Cloud Computing, XML, X/HTML, JS/Node, SQL, (ba)sh</p> <p>Legacy Skills: Android, XSD, SOAP, perl, PHP, JMS, JSP, (ba)sh, GTK, CORBA (IDL)</p> <p>Operating Systems: Unix/Linux, Windows, Mac/OSX, MCOS/MCOE, vxWorks</p>
Experience	<p>Senior Software Engineer – Google, Inc. – Mountain View, CA July 2011 - Mar. 2023: Technical Lead, Backend Server Development</p> <ul style="list-style-type: none">• Designed and implemented people-related ranking/suggestions using Machine Learning.• Performed large-scale data analysis, plus subsequent project planning and execution.• Designed and deployed solutions and APIs for complex data storage services.• Led an 8-person team charged with a major, multi-year data migration.• Technical Lead for storage systems underlying Google Profiles, Google+, Google Contacts, and more.• Served additional roles as: Java Readability Reviewer; member of Privacy Working Group. <p>July 2008 - July 2011: Technical Lead, Frontend Server/UI Development:</p> <ul style="list-style-type: none">• Led a team of 13 software engineers to build and launch Google Profiles.• Designed and built AJAX web applications built on GWT, HTML, CSS, and JavaScript.• Interfaced with distributed, data-driven backends, with heavy emphasis on RPCs.• Prototyped high-performance real-time text-processing agents built on Google Wave.• Emphasized test-driven development based on iterative, agile-based processes. <p>Software Engineer – Argon ST – Fairfax, VA June 2003 - June 2008</p> <ul style="list-style-type: none">• Developed C, C++, and Java applications using Waterfall and Spiral development models.• Designed 4-Tier Java EE Applications in a JBoss container.• Managed maintenance of approximately 170,000 lines of code across 14 software components.• Managed multiple projects, both technically and with respect to cost accounts.• Supervised three employees. <p>Junior Software Engineer – Science Applications International Corporation (SAIC) – Arlington, VA May 2002 - May 2003</p> <ul style="list-style-type: none">• Developed web-based database software using Waterfall and Spiral development models.• Focused on Java Applet, Java Servlet, Java AWT, and Java XML programming.• Utilized general XML technology (DTD) and database management/querying. <p>Undergraduate/Graduate Researcher – Virginia Tech – Blacksburg, VA September 2001 - June 2003</p> <ul style="list-style-type: none">• Grant project: "Information Visualization: Visual Debugging"• Funded with a \$10,000 grant from USENIX.• Graduate Thesis, "Applying Information Visualization Techniques to Visual Debugging", 2003.• Undergraduate Thesis, "Data Structure Visualization", completed Spring 2002.
Honors	<p>Upsilon Pi Epsilon Honor for Superior Scholarship, Spring 2002</p> <p>Virginia Tech Academic Dean's List (All Semesters)</p> <p>AP Scholar with Distinction Award (1999)</p> <p>National Merit Scholarship Quarter-Finalist (1998)</p> <p>Rensselaer Medal and accompanying \$40,000 scholarship (1998)</p>
Activities	<p>Founder and Developer of Open Source Software "Maemo Mapper"</p>