

AMAN SRIVASTAVA

• Email: Aman.Srivastava@asu.edu • Phone: (480)-584-7288 • Website: <http://amansrivastava.me/>
• LinkedIn: <https://www.linkedin.com/in/amansrivastava29/> • GitHub: <https://github.com/aman-srivastava>

EDUCATION

- Arizona State University, Tempe AZ | MS - Software Engineering** **GPA – 3.67 / 4.0 | May 2018**
• Coursework: *Data Structures, Algorithms, Data Visualization, Data Mining, Data Science, Programming Languages*
- Symbiosis International University, India | BTech - Computer Science** **August 2010 – May 2014**
• Coursework: *Algorithm Design & Analysis, Distributed Systems, Cloud Computing, Networking, Operating Systems, Computer Graphics*
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TECHNICAL SKILLS

- **Languages & Frameworks:** *Java, Python, JavaScript, C, C++, C#, SQL Node.js, AngularJS, Spring MVC, Hibernate*
 - **Big Data:** *NoSQL, Cassandra, Apache Spark, MongoDB*
 - **Tools:** *ServiceNow, MATLAB, SQL Developer, Eclipse, Maven, Ant, Pycharm, Microsoft Office Suite, Visual Studio, Slack*
 - **Web Design:** *HTML5, CSS3, Bootstrap, PHP, REST, AJAX, JQuery, XML, XSLT, JSON, Adobe Photoshop & Illustrator*
 - **Miscellaneous:** *Agile, SDLC, TDD, Software Design, Requirements, Documentation, Testing, Prototyping, Debugging, ITIL V3 Certified*
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WORK EXPERIENCE

- Arizona State University | Research Assistant & Software Developer** **Tempe, AZ | February 2017 – Present**
• Developed and enhanced a Synthetic Population Generator (PopGen) using Python libraries NumPy, SciPy and Pandas
• Migrated developed software to an Amazon Web Services cloud infrastructure using EC2, S3 and Django Web Framework for Python
• Performed Data Analytics & Visualizations on high-volume geo-coded travel data using Tableau, D3.js, R and Microsoft Excel
• Developed a Thermal Comfort Model by processing thousands of Google Street View images using Express and Socket.io in NodeJS
• Segmented Google Street View Images into 6 classes in MATLAB using scalable Deep Learning based on a Convolutional Neural Network
• Converted 500+ lines of FORTRAN code to an equivalent JavaScript code, for calculating Physiological Equivalent Temperature
- Tata Consultancy Services Ltd. | Software Engineer** **Mumbai, India | August 2014 – July 2016**
• Worked in Agile to develop JAVA/J2EE Applications using Spring Model-View-Controller, Hibernate and Struts frameworks
• Reduced manual effort by 99% by developing the Google Chrome Extension - SnowMAN to scrape and analyze data, saving \$300,000+ annually
• Honed problem-solving skills by working on Problems, Incidents and Change Management using ServiceNow tool
• Performed Source Code Management using SVN, deployed apps on JBoss, Tomcat and WebSphere Application Servers
• Managed MySQL, Oracle and DB2 databases. Performed data Extract-Transform-Load using PowerCenter. Automated workflows in Control-M
- NVIDIA Corp. | Software Engineering Intern** **Pune, India | January 2014 – April 2014**
• Developed algorithms in a windows app to detect corrupt video game images and assigned a quality index using C#, OpenCV, Edge-detection
• Researched and enhanced the performance of popular Image QA algorithms by converting them into CUDA C/C++ & C# on GPUs
• Trained, tested and optimized Image Quality Assessment models in MATLAB using Machine Learning & Computer Vision
- TATA CONSULTANCY SERVICES LTD. | Software Engineering Intern** **Mumbai, India | January 2013 – June 2013**
• Developed a multi-threaded Windows Application in JAVA for secure authentication to remote servers using NTLM, JCIFS packages
• Designed and developed a Graphical User Interface with an in-built Time Scheduler for automating tasks and reducing manual efforts by 80%
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VOLUNTEER EXPERIENCE

- Maricopa Association of Governments | Software Engineer** **Phoenix, AZ | January 2018 – Present**
• Improve memory/runtime in MAG ABM Travel Forecasting Tool by using Java Parallel Processing Framework (JPPF)
• Parallelize computationally intensive tasks and distribute them across several nodes in a grid environment
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PROJECTS

- **Capstone Project SNA4Slack (Team):** Performed Social Network Analysis & Visualization on public Slack Conversations from slackarchive.io
- Created RESTful web services API to interact with MongoDB database and generated D3.js graphs using JSON data
- Built a Python web-crawler using Flask to scrape large datasets, to store in Cassandra database, and processed in Apache Spark
- Generated and plotted graphs for Slack users using NetworkX & Matplotlib libraries in Python, and stored resultant JSON data in MongoDB
- Practiced core Agile principles, created User Stories, Tasks and Issues in GitHub and Scrum board tools - Waffle and Taiga
 - **Google Street View Visualizer (Solo):** Developed an open-source web application to create data visualizations for google street view images
- Integrated Google Maps & Street View API to display Street View imagery in a web app using HTML5, CSS3, Bootstrap and JavaScript
- Processed images using JavaScript to compute and display pixel luminosity & color frequency charts using Google Charts API
 - **Web-Apps (Team) – FreeMapl, MovieHill, TradeViz:** Created several websites using content management systems (CMS)
- Built websites using JavaScript and popular CMS tools such as WordPress, Joomla over the Linux, Apache, MySQL, PHP (LAMP) stack
 - **Android Apps (Solo) – allSocial, EmojiText:** Developed native apps in JAVA using Android Studio, and published in the Google Play Store
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ENTREPRENEURIAL EXPERIENCE

- GharBaitho.com – Online Grocery Store | Founder and Full-Stack Developer** **July 2015 – June 2016**
• Created, managed and sustained an Internet Grocery Company single-handedly, named GharBaitho (or “Stay-Home”)
• Built & deployed the website over a Linux, Apache, MySQL & PHP stack, using Content Management Systems and also created an Android App
• Developed process tools in .NET, maintained Website, handled clients, business partners, human resources & online marketing (SEO)
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ACHIEVEMENTS

- Received Best Process Improvement and Best Ideation awards by Tata Consultancy Services for creating SnowMAN application, 2017
 - Invited speaker at the International Conference on E-Commerce, Doon Business School, for GharBaitho.com, 2016
 - Invited alumnus talk on “Scope and Opportunities in Computer Science”, at Symbiosis International University, 2015
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