Harini Gunabalan

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Professional Experience

SAP Research, Germany *[Software Developer]*   *June 2016 – Present*
Metering, Cloud Reporting & Analytics: Cloud Monitoring for metering purposes to hold the SLA availability. SAP's BusinessObjects-Cloud(SaaS offering) architectural design to connect to HANA instances in different landscapes through cloud connector/reverse proxy

SAP Research, Darmstadt, Germany *[Student Researcher & Master Thesis]*   *July 2015 - May 2016*
Predictive Auto scaling & Feedback Driven Development for Cloud Applications using data modeling. Research work as a part of the CloudWave Project, an EU funded research project. Developed Software Tools, Eclipse Plugins, and SAP Web Analytics framework.

SAP SE, Walldorf, Germany *[Intern, Active Global Support, EMEA]*   *April 2015 – June 2015*
Performance Analysis of SAP System metrics such as work processes, CPU consumption etc., at the production environment. Analyzing MDX queries, snapshot overviews for each of the Application Servers, Error messages, and Performance Statistics Reports.

Deloitte Consulting India Private Limited *[Business Technology Analyst]*   *Jun 2011 – Sep 2013*
Provided custom SAP ERP solutions to Clients from USA, Germany and France. Developed ABAP RICEF (reports, conversions, interfaces, enhancements and forms) objects, module pool programs, Master data handling through conversions/interface programs.

Education

Technical University of Darmstadt (Germany)   *Oct 2013 – Aug 2016*
Master of Science – Distributed Software Systems   Current CGPA 1.9 (Scale: Best 1.0 and Worst 5.0)
Madras Institute of Technology, Anna University (India)   *Aug 2007 – May 2011*
Bachelor of Technology – Information Technology   CGPA 8.7 / 10

Research/Coursework/Hackathon Projects

1. Context Aware Opportunistic Sensing: **LocalSiri (Grade: 1.0; Top Scorer)**   *Oct 2014 – Feb 2015*
A Sensing System that opportunistically collects location information adapting to the User's device context providing a Location based forum. It leverages IBM Bluemix Cloud services for Storage, Processing and push notifications (using Google Cloud Messaging).

2. Decentralized Social Networking using WiFi Direct: WiFriends (Grade: 1.3; Top Scorer)   *Oct 2014 – Feb 2015*
Research on Android Wi-Fi P2P API for the overlay creation and dynamically discovery of peers in proximity to exchange profile information in a secure manner by data encryption using pre-shared key (AES 256) exchanged once via NFC, during adding friends.

3. Middleware Enterprise Project: **Omazon**   *Oct 2013 – Mar 2014*
An Enterprise Solution that provides logistics services to customers using Java EE components (EJB3, JMS, JPA, and MVC Architecture)

4. Android: Audio Recorder to record RAW Audio samples   *Oct 2013 – Feb 2014*
5. Student Overflow** Availability of places in Library or other similar places using Android Geofencing   *Jul 2015*
6. DroneSpot** Leveraging 5G to provide internet hotspots through drones   *Feb 2016*
** *Hackathon projects - For other* **Hackathon** *projects click* *here*

Skills, Achievements and Co-curricular Activities

Language & Technical Skills:
Languages: Core Java, Android, Node.js, JavaScript, jQuery, ABAP, HTML5, CSS3, Open UI5, REST APIs, Bootstrap, Fiori UX, C, C++
Platform/DB: Cloud Foundry, SAP HCP, IBM Bluemix, OpenStack, Elastic Search, Cloudant, SAP HANA, MS SQL, MySQL, Hibernate
IDE/Others: Git, Eclipse PDE, InteliJ Android Studio, SAP Web IDE, Brackets, MATLAB, LaTeX, Unix, Windows, Apache Jmeter, JIRA
Conferences/Awards:
- Speaker – ACM Student Research competition & Student Opportunity Lab at Grace Hopper Conference - Houston, October 2016.
- Speaker – European Conference on Service-Oriented and Cloud Computing, Vienna, 2016, on "Feedback Driven Development".
- Google travel grant winner to attend SREconEurope 2016 (Site Reliability Engineering), July 2016.
- MAKI Female Student Travel award winner to attend the Grace Hopper Conference - Houston, 2016.
- Google travel grant winner to attend Hack in the Box Security Conference 2015, Amsterdam .
- Speaker - GDG Rheinmain Groups on the topic Machine Learning with TensorFlow library
- Student Representative of SAP to present a prototype of DroneSpot at the Mobile World Congress conference, 2016, Bercelona.
- SAP Innojam Hackathon (Coding the future, Berlin) Winner – Ticket to participate at SAP TechEd Conference, 2015, Barcelona
- Winner (3rd place) of the RheinMain Hackathon -University of Mainz, & Participant in the Hybris CloudHackfest.
- SAP Fast Track Award (Special Mentoring and Workshops for top 10% Students) & SAP Peer to Peer Recognition Award winner
- Financial Scholarship of TU Darmstadt for Master Thesis & Topper in both Lab Projects during Winter Semester, 2014 – 15.
- Best student in Communication Networks by Prof. Dr. Ralf Steinmetz to attend E-Finance Lab Best Students Event, Frankfurt, 2015.

Volunteering / Activities:
- Mentor-BigSister Network, TU Darmstadt & Coach - RailsGirls Workshop & Member - Techettes Frankfurt, GDG Rheinmain, Systers
- Technical Reviewer of the "Machine Learning with TensorFlow" video Tutorials with Packt Publishing.
- Spot Award-2013 Winner at Deloitte for mentoring technical new-hires, & Oracle certified Java Programmer (100% score)