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Amit Kumar

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EDUCATION

Arizona State University, USA | Masters of Science (Computer Science) | **GPA 3.72/4**   *May 2018 (expected)*
National Institute of Engineering, India | Bachelors of Engineering (Computer Science & Engineering) | **GPA 8.55/10**   *Jun 2011*

TECHNICAL SKILLS

Programming languages: Java, C++, Python, JavaScript
Web/Mobile development: Android, NodeJS, Handlebars, HTML
Databases: SQLite, MySQL, Mongo, Firebase
Tools/ Frameworks: Git, Amazon Web Services, Google App Engine, scikit-learn, nltk

PROFESSIONAL EXPERIENCE

Formative Assessment in Computing Technology Lab, Tempe, USA   *Dec 2016 – Present*
Java Backend Developer/Research Assistant (*Java, WebSockets, JSON, RESTful, Mockito, Git, Agile, NodeJS*)
- Built RESTful web services to facilitate students and teachers to login to FACT system.
- Implemented web sockets for real-time interaction in the virtual classroom and publish the event on Guava event bus.
- Developed and designed detector which detects whether students are cooperating or collaborating on a task.

Samsung Research & Development India, Bangalore, India   *Apr 2012 – Jul 2016*
Lead Engineer (*Android, Java, RESTful, Push Notification, JSON, XML, Perforce, Volley*)
- Designed and developed Enhanced Account which facilitate mobile number based authentication in Enhanced Features SDK, which commercialized in Galaxy S7. Enhanced Features SDK reduces development time of projects which require features like authentication, sharing or contact sync by exposing APIs to developers.
- Collaborated between Samsung HQ R&D and India R&D to finalize the design of 'heartbeat mechanism' in Enhanced Account.
- Implemented two-factor authentication feature in Enhanced Account to support authentication of SIM-less devices by using Samsung Push Service and Google Cloud Messaging.
- Proposed and brainstormed on the idea of "Tack Notifications" and developed the proof of concept for the same.
- Developed proof of concept for Rail Swipe task switcher to provides easy task switching using the edge of Samsung smartphones.
- Appreciated for before-time completion of Jelly Bean Android OS projects for taking charge of Application Framework module.
- Implemented white theme notification panel and status bar in "System UI" for Samsung tablets. I won 'spot award' for this.
- Debugged and resolved critical issues in System UI, lock screen, notification manager, window manager and upgraded them to latest Android OS version.

Huawei, Bangalore, India
Software Engineer   *Jun 2011 – Mar 2012*
- Worked in customization of SMS Center project as per customer requirements.
- Designed deployment of the virtual cloud desktop solution to support presales team.

ACADEMIC & PERSONAL PROJECTS

Web pages with behavior logging services (*Node js, Express, MongoDB, RESTful, Chrome extensions*)   *Fall 2017*
- Designed and developed a full-stack application to log user behavior from 'Stackoverflow' page by injecting JavaScript through google chrome extensions. Used REST services to pass user behavior from extension to Node server.

Photo-Posing (*Android, Google Vision APIs, Firebase, Google App Engine, Google Maps*)   *Spring 2017*
- Developed and designed android application that takes user photo at tourist destination and recommend popular photo poses of that destination using vision APIs and stores user photos to Firebase database for future suggestions.

Cloud-Pi (*Amazon Web Services, IaaS, Java, RPC, RabbitMQ*)   *Spring 2017*
- Built an elastic application which on getting the request from user complete intense pi computation with effective auto-scaling.
- Used Java to create AWS EC2 instance for Application and Web tier, S3 buckets as data tier to store results, Snapshots to dynamically create EC2 on demand and RabbitMQ (queue) for handling multiple requests simultaneously.

ADDITIONAL EXPERIENCE AND AWARDS

- Received spot award thrice for achievement beyond expectations at Samsung R&D.
- Published two apps (interactive child education application and live wallpaper) on Android Play store.