

VIMAL KHANNA VADIVELU

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SUMMARY

Graduate student with good academics seeking full-time opportunities in the field of software development. I enjoy developing web applications, data visualization dashboards and working with CI/CD tools. New interest - developing skillsets for IOT devices.

EDUCATION

Master of Science in Computer Science
Arizona State University, Tempe

May 2017
CGPA: 3.67/4.0

SKILLS

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|------------------------------------|--|
| • Language | Java, C++, C, C#, python |
| • Web Technologies | HTML5, CSS, JavaScript, Node.js, AJAX, JQuery, AngularJS, D3, JSON |
| • DB, Platforms & Tools | MongoDB, MySQL, Git, OpenStack, AWS (S3, EC2, API Gateway, Lambda) |
| • Big Data Technologies | Hadoop, MapReduce, Spark, Pig |

WORK EXPERIENCE

Software Engineer Intern – Yahoo Inc. (Yahoo Developer Network)

June 2016 - Aug 2016

- **ScrewDriver** – Yahoo's Continuous Delivery Build System (**Node.js, OpenStack, Jenkins, Docker**) <http://screwdriver.cd/>
 - Screwdriver.cd, an open source new streamlined build system designed to enable Continuous Delivery to production
 - Developed nearly 15 jobs using ScrewDriver.cd for various functionalities like bursting cache for dashboards, tracking up email reports, monitoring tumblr sharing and many more. Written Cron jobs that triggers screwdrivers periodically.
 - Jobs are made using Docker containers replacing virtual machines which drastically reduced the execution time.
- **Apache Traffic Server** – Scalable and extensible HTTP/1.1 compliant caching proxy server
 - Assisted in construction of Apache Traffic Server v2 for Yahoo Application publisher platform which handles about 1 Million traffic a day with more than 250,000 Developers.
 - Developed ScrewDriver jobs that supports the configuration and smoke test of ATS v2.

Full-stack Web Developer - ASU EdPlus

Jan 2016 - Present

- **Data Visualization** - Developed ASU EdPlus Dashboard with Google Analytics and Uptime Site Monitoring Robot Data and created an android application using Apache Cordova (**HTML, CSS, JavaScript, Highcharts, Node.js, Cordova**)
- Custom Media Player with features like Hotkeys, Playback jumping 10 seconds, 508 compliant (Support for Visually challenged) along with embed codes to embed video into any web page using VideoJS (**HTML5, CSS, JavaScript, Video.js**)
- Developed a RESTful API that generates MP4 link of the Wistia Video, Utilized Wistia Data API for JSON video details, hosted in AWS (**HTML5, CSS, Bootstrap, Express.js, Node.js**)

PROJECTS

- **Geospatial operations** – Implemented Geospatial operations namely Geometric Union, Convex HULL, Farthest and nearest points, Spatial join and Spatial Range using Hadoop HDFS and Spark. (**Hadoop, Spark, Java**)
- **Meme Curator (Personal Project)** – Designed and Developed a full-stack web-app to display relevant and trending memes using Facebook graph API. The application is hosted in AWS (**HTML, CSS, JavaScript, JQuery, Node.js, MongoDB**)
- **Geotagging meetup events (Personal Project)** – Geotagging the RSVPs made by users all over the world using meetup Real-time data streams, PubNub JavaScript API and Eon framework for maps (**HTML, CSS, JavaScript**)
- **Apache Pig as a Service** – Developed a system which provides Hadoop and Apache Pig as a service on top of OpenStack environment. Also implemented data monitoring and dashboard for the user. (**OpenStack, Angular.js, Node.js, Bash**)
- **Mobile Specific Web-app for smartphones** - Developed a RESTful Web-app using gyroscope sensor that allows the user to participate in a real-time game session using their smartphones. (**HTML5, CSS, JavaScript, JQuery, Java, MySQL**)
- **Secured Banking System** - Developed a banking Web-app with security features like Public Key Infrastructure(PKI), SSL/TLS, MD5 hashing, 2 step validations, captcha and One Time Password. (**HTML, CSS, JavaScript, AJAX, Spring**)

RESEARCH JOURNALS

- Enhanced Dynamic Whole File De-Duplication (DWFD) for Space Optimization in Private Cloud Storage Backup, International Journal of Machine Learning and Computing, <http://www.ijmlc.org/papers/440-C009.pdf>
- Intensive Fixed Chunking (IFC) De-Duplication for Space Optimization in Private Cloud Storage Backup, Journal of Theoretical and Applied Information Technology, <http://www.jatit.org/volumes/Vol74No3/5Vol74No3.pdf>
- An Empirical Analysis of Agent Oriented Methodologies - http://link.springer.com/chapter/10.1007/978-3-319-13728-5_23