

# Aviral Srivastava

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EDUCATION	<b>Boston University</b> , Boston, MA. Sep 2019 - Apr 2021 (Expected) <ul style="list-style-type: none"><li>▪ MS, Computer Science. CGPA : 3.8/4</li></ul> <b>Vellore Institute of Technology</b> , Chennai, India. Jul 2014 - May 2018 <ul style="list-style-type: none"><li>▪ B.Tech, Computer Science and Engineering. CGPA : 3.56/4</li></ul>
SKILLS	<ul style="list-style-type: none"><li>▪ <b>Languages:</b> Python, C++, PHP, Java, SQL</li><li>▪ <b>Technologies/Platforms:</b> Spark, SQL, Dask, Kubernetes, Docker, Vagrant, Airflow, Kafka, Pulsar, Celery, AWS, GCP, Azure, Snowflake, Cassandra, RocksDB, PrestoDB, KyotoDB, Redis, Django.</li></ul>
WORK EXPERIENCE	<b>Boston University</b> , Research Associate (Software Engineering) Sep 2019 - Present <ul style="list-style-type: none"><li>• With <a href="#">Dr Eric</a>, I am working on making UML diagrams scalable and reliable.</li><li>• Working on parsing large scale Python codebases and drawing the corresponding UML diagrams.</li><li>• Stack: <b>Python3, Java, AST, OOP Design and Analysis</b></li></ul> <b>Atlan</b> , SDE May 2018 - Jul 2019 <ul style="list-style-type: none"><li>• Atlan is a data democratization startup that helps data teams collaborate frictionlessly on data projects. As an SDE, I was responsible for three areas: Backend, Data and DevOps.</li><li>• Ensured the development and on-premise deployments of dashboards like <a href="#">United Nations SDGs monitoring</a>, <a href="#">Ujjwala Dashboard</a> using <b>Python3, Kubernetes, Docker and AWS S3</b>.</li><li>• Created serverless Transformation(ETL) JupyterHub: a multi-user hub that spawns, manages, and proxies multiple instances of the single-user Jupyter notebook server. Stack: <b>papermill, Python3, Docker, Helm, Kubernetes</b>. Used by companies like <b>Unilever, Mindshare, McKinsey &amp; Co.</b></li><li>• Built and deployed Data Repository: a version control for data, including features like 'git diff', rollback, at a scale of over <b>billion rows in one cycle</b>. Stack: <b>Python3, S3, RocksDB, KyotoDB, Hive metastore and PrestoDB</b>. This scaled the production releases by <b>300%</b>: 1 project release to 3 projects release per quarter.</li><li>• Built a micro-service with Event Sourcing mechanism for pricing in <a href="#">Collect</a> using <b>Kafka, Python3, Docker</b></li></ul> <b>Wingify</b> , SDE Intern Dec 2017 - Mar 2018 <ul style="list-style-type: none"><li>• Wingify is a B2B software product company with clients like <b>ebay, Disney, AMD, etc.</b></li><li>• It's product is VWO which is an experience optimization platform that improves key business metrics by empowering clients to easily discover insights, test ideas, and improve engagement.</li><li>• As an intern, I worked with Head of Engg, Ankit Jain, to build a micro-service which parses textual inputs into Domain Specific Language trees and JavaScript code.</li><li>• APIs of this microservice scaled query processing of the product by <b>60%</b>.</li><li>• Received the full time employment offer based on my performance during internship.</li><li>• Stack: <b>PHP, MySQL, CICD, Docker, Vagrant, Blackbox Testing, Unit testing, JMeter</b></li></ul> <b>University of Manchester</b> , Research Intern Sep 2017 - Dec 2017 <ul style="list-style-type: none"><li>• Developed a Neural Mass Computational Framework to simulate EEG readings of the brain.</li></ul> <b>University of Liverpool</b> , Research Intern May 2017 - Aug 2017 <ul style="list-style-type: none"><li>• As an SDE(data) intern, I Implemented Mapper algorithm in C++.</li></ul> <b>Centify</b>   Co-founder, CTO Apr 2017 - Apr 2018 <ul style="list-style-type: none"><li>• Centify was an audience Engagement tool which enabled digital media platforms to integrate social media reactions with video or textual content. We were <b>selected in YC School with mentorship track</b>, featured in <a href="#">IBM</a>.</li></ul> <b>PUBLICATIONS</b> <ul style="list-style-type: none"><li>▪ <a href="#">A Software Requirements Engineering technique for IoT Based Healthcare Applications</a> Jan 2018</li></ul> <b>OPEN SOURCE</b> <ul style="list-style-type: none"><li>▪ <a href="#">ZCash Service Status Dashboard</a>: A health-check monitoring dashboard for <a href="#">ZCash</a>.</li><li>▪ <a href="#">EEG Simulator</a>: tool to simulate EEG readings of brain.</li><li>▪ <a href="#">Self Driving Remote Control Car</a>: a collaborative autonomous driving bot.</li><li>▪ <a href="#">Football Tracker</a>: reduced food waste by predicting the number of students in campus dining.</li></ul> <b>HACKATHONS</b> <ul style="list-style-type: none"><li>▪ <b>Medhacks</b>: Developed brain's state(fear, fright, flight) simulation. Won the verbal mention.</li><li>▪ <b>Hackinout</b>: Developed Chemical Component Detection in brain's thalamus.</li></ul>