AADARSH KENIA

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# WORK EXPERIENCE

**Morgan Stanley** **New York, NY**

Technology Associate (Software Engineering)Nov 2016 - Present

Technology Analyst (Software Engineering)Aug 2016 - Nov 2016

* Led the initiative to improve document collaboration experience for clients by implementing RESTful web-services through a novel concept of API-first design (Swagger).
* Optimized response times of slower API operations by 3x through a new implementation using message queueing systems and Java Message Service (JMS).
* Decommissioned a legacy, cutting costs by $1.7M annually by engineering an improved routing system based on an event-driven, service oriented architecture and data serialization using Google Protocol Buffers.
* Oversaw evolution of a middleware from proof of concept to being a core component of many production systems.
* Saved hundreds of man hours spent in production support by automating the recovery of workflow processes.

**PROJECTS** *(github.com/aadarshkenia)*

* **Google Drive File System** (Hobby Project): Built an app for automating the backup of local file system to Google Drive Cloud. Technologies: Python, file system in user space (FUSE) library, Drive SDK, OAuth 2.0.
* **SBUnix Operating System (**Stony Brook University) : Programmed a 64-bit preemptive OS kernel with support for memory management, process scheduling, shell. Debugged critical bugs related to virtual memory and context switches and implemented system calls from scratch.
* **Fault Tolerant Distributed Banking System** (Stony Brook University) :Extensively used multi-threading to simulate chain replication protocol for handling server downtimes in a distributed environment.
* **Music Synthesizer for Android** (Stony Brook University) : Successfully integrated a prominent feature of track recording and playback into this open-source project.

**EDUCATION**

**Stony Brook University,** MS in Computer Science (GPA: 3.56 / 4) Aug 2014 - May 2016

* Coursework: Algorithms, Data Structures, Distributed Systems, Databases, Operating Systems, Parallel Computing.

**University of Mumbai,** BE in Computer Science Sep 2010 - May 2014

**AWARDS**

* Top 3%, Project Euler algorithms programming contest (hackerrank.com), 25,000+ participants worldwide.
* Ranked top 1%, AIEEE competitive exam for selection into NITs amongst 1M students.
* Numero Uno Math Quiz : Runner-up amongst 800+ participating teams at State Level Math Quiz.

**OTHER EXPERIENCE**

* **Intern Mentorship (Morgan Stanley)**: Provided insight on various areas within technology, conducted one-one review sessions to guide through blockers and ensured that the internship experience is enjoyable and rewarding.
* **HackRU, Rutgers University Hackathon :** Oversaw a team of 4 and attempted to build a basic networking website for children of New York Presbyterian hospital within 24 hrs. Coordinated individual responsibilities within the team and handled server side scripting. Technologies: PHP, MySQL, HTML, CSS.

**SKILLS**

* **Languages :** Java (Proficient), C, Python, JavaScript, SQL.
* **Frameworks :** Spring, Messaging Queues, JUnit, Mockito, Swagger, Selenium, MapReduce, ZooKeeper.
* **Tools :** Git, IntelliJ IDEA, Gradle, GNU Debugger.
* **Concepts :** Object-oriented design and development, API first design, test driven development, distributed systems, REST and SOAP web services.