NIHAR DWIVEDI

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EDUCATION

Boston University College of Engineering | January 2021 — Boston, MA
Master of Science in Electrical and Computer Engineering | GPA: 3.44

Kalinga Institute of Industrial Technology | April 2019 — Bhubaneswar, India
Bachelor of Technology in Information Technology

***Relevant Coursework*:**
Computational Intelligence, Computer Networks, Operating Systems, Web Technology, Compiler Design, Object-Oriented System Design, Mobile Computing, Digital Signal Processing, Product Design, Design by Software, Cloud Computing, Parallel Algorithms, Advanced Data Structures, Cybersecurity, Deep Learning

SKILLS

Programming Languages:	C++, Python, JavaScript, Java, C#, PHP, Ruby, Go, Lisp (Racket, Clojure), Rust
Tools and Frameworks:	Git, Bash, React.js, NodeJS, GraphQL, Flask, Django, PyTorch, Tensorflow, Wasm, Homebrew, OpenMP, OpenACC, CUDA, Hadoop, Kafka, Zookeeper, MapReduce
DevOps & Cloud:	Kubernetes (K8s), Docker, Containers, Openshift, AWS, GCP, EC2, ELB, VPC, Lambda, Firebase, Route53, Ansible, Prometheus, Grafana, Elasticsearch, Virtualization, VMware VSphere, ESXi, Hyper-V, KVM, CircleCI, Travis
Databases:	SQL(MySQL,TSQL,PL/SQL), etcd, JSON, MongoDB, Redis, Memcached, Cassandra, S3, EBS, RDS, DynamoDB
Operating Systems:	Linux (Ubuntu, Debian, Arch, RHEL), Unix(FreeBSD, MacOS), Windows (10, Server 2019)

EXPERIENCE

Deloitte | Hyderabad, India — January - May 2019
Software Engineering Intern
- Developed PowerShell and SQL code for an internal tool used to audit client systems and databases, code shipped in next major release.
- Collaborated with senior engineers utilizing C# and JavaScript to develop new features for the tool's web-based frontend.
- Maintained and extended user documentation.

Builtify | Bhubaneswar, India — January - April 2018
Intern
- Developed database backend for product catalog, implemented via SQL.
- Led development of a new website, utilizing HTML, CSS, and JavaScript.
- Increased traffic by a factor of 4 and retention by a factor of 10 in new website.

PROJECTS

Language Error Detection | Boston University
- A Java application to learn from scraped web text data and predict correctness of user-given sentences.

Data Science and OpenShift on the Mass Open Cloud | Boston University
- An Openshift container application to detect anomalies in and predict future values for various cloud metrics.

Steel Defect Detection | Boston University
- A Kaggle competition data science project, achieved 70% accuracy on competition test dataset.

Twitter Sentiment Analysis | Boston University
- A Python script to generate sentiment scores for tweets containing a user given keyword using Twitter's public API.

Embedded Machine Learning | Boston University
- An Android app showcasing a simple object detection model using Google's MLKit framework.

Image Style Transfer | Kalinga Institute of Industrial Technology
- A Python script to demonstrate image style transfer utilizing Tensorflow on a local GPU.

AWARDS AND ACTIVITIES

- Placed second in an undergrad Python programming competition.
- Participated in various academic conferences and symposiums held in college on Machine Learning, Cloud Computing, and GPU programming.
- Won a college quiz on Cloud Computing.