Divyansh Mishra

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EDUCATION

- **Virginia Tech** — Blacksburg, VA
  Candidate for MS in CS; GPA: 4.0 — *July 2021 - May 2023*
  Courses: *Software Engineering, Mobile Application Development, User Interface Software, Information and Data Retrieval*

- **Manipal Institute of Technology** — Manipal, India
  B. Tech. in Information Technology; GPA: 3.8 — *July 2017 - June 2021*
  Courses: *Operating Systems, Data Structures and Algorithms, Object Oriented Programming, Software Engineering, DBMS*

SKILLS SUMMARY

- **Languages**: Java, Ruby, Kotlin, JavaScript, Python
- **Frameworks**: Spring, Rails, React, Mockito
- **Tools**: Docker, GIT, PostgreSQL, MySQL, ElasticSearch, AWS

INTERNSHIPS

- **CDK Global** — San Jose, CA
  Software Engineer Intern — *June 2022 - August 2022*
  - **CI Runs**: Reduced failing CI runs by 60% by building a Slack Webhook to notify developers of failing test cases.
  - **Notification Audit**: Built a self-service tool using Ruby on Rails and ElasticSearch, automating notification audit.
  - **Risk Alerts**: Upgraded risk monitoring by developing an alerts dashboard incorporating multiple GraphQL APIs.

- **BlackRock** — Remote
  Software Engineer Intern — *January 2021 - July 2021*
  - **Ownership**: Documented the transfer of a Java application to my team, owning and maintaining it for 12 sprints.
  - **Enhancements**: Integrated ESG report into said portfolio management application, enabling sustainable investments.
  - **Multi-Data Export**: Built multi-stage process-chains to export complex reports built on Cassandra using Java

- **Campus Haat Solutions** — Kanpur, India
  Backend Engineer Intern — *May 2019 - August 2019*
  - **APIs**: Aided in increasing month-over-month sales by 40% by developing APIs for hyperlocal e-commerce platform.
  - **Networking Tool**: Expedited release of alumni-networking tool by designing backend for job-search before deadline.
  - **Algorithms**: Designed algorithms for Covid cluster detection as part of "Covid-19 Relief Plan Phase-2" of IIT-K.

PROJECTS

- **PEML - Program Exercise Markup Language** — Blacksburg, VA
  Master's Thesis Project — *September 2021 - Present*
  - **Design**: Formalized and built a markup language for CS instructors to describe programming assignments in.
  - **Docker**: Containerized PEML Rails app, PEML parser, and our Jekyll website using Docker for local development.
  - **Microservice**: Built APIs to offer PEML parsing features as a microservice to external program assessment tools.

- **HealthTech Application** — Blacksburg, VA
  Software Engineering Project — *September 2021 - December 2021*
  - **Development**: Developed a nutrition and workout management app using Java and JSF following the MVC paradigm.
  - **Architecture**: Wrote design document following the Department of Defence Architectural Framework (DoDAF).

PUBLICATIONS

- **Paper: Knowledge-based recommendation system using semantic web rules based on Learning styles for MOOCs**: CE paper on recommendations based on learning style. Tech: Node.js, Python, GCP, OWL (January '22)

- **Paper: Natural language query formalization to SPARQL for querying knowledge bases using Rasa**: Progress in AI paper on English to SPARQL conversion. Tech: Python, Rasa, OWL, SPARQL (December '21)

- **Paper: Dynamic Identification of Learning Styles in MOOC Environment Using Ontology Based Browser Extension**: iJET paper on FSLSM learning style detection. Tech: Node.js, Python, GCP, OWL (June '21)

VOLUNTEER EXPERIENCE

- **Greenlight for Girls** — San Jose, CA
  Collaborated with interns, presenting ways to inspire girls to pursue STEM subjects — *June 2022 - August 2022*

- **AIESEC Cleanliness Drive** — Manipal, India
  Collected and categorized trash on the beaches of Manipal for appropriate dumping — *August 2019 - November 2019*