MyungJae Matthew Lee

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WORK EXPERIENCE

iPro Systems   **Nashville, TN (Remote)**
  Software Engineer   **Nov. 2022 – Present**
- Built and maintained a multi-tenant SaaS platform using Python, FastAPI, Postgres, and Vue.js, serving thousands of daily users
- Modernized ETL workflows by migrating legacy MS Access/Pandas jobs to Spark on AWS EMR, cutting runtimes by ~70% and cloud costs by thousands per month
- Streamlined client onboarding by migrating heterogeneous database systems into unified schemas
- Built data pipelines with Spark SQL, Airflow, and AWS EMR to process tens of millions of records daily
- Designed scalable data models to support new features and improve performance
- Automated deployments with AWS CodeBuild, CodePipeline, Docker, and Kubernetes, reducing deployment errors and release times
- Ensured 99.9% uptime by resolving critical production incidents across APIs, pipelines, and front-end apps

Cleveland-Cliffs   **East Chicago, IN**
  Project Engineer   **Mar. 2022 – Nov. 2022**
- Wrote technical specifications for a $55M blast furnace modernization project, supporting vendor selection and execution
- Directed contractors during installations and maintenance, ensuring safety and quality compliance

  Mechanical Engineer   **June 2021 – Mar. 2022**
- Reduced downtime through root-cause analyses and redesigned lubrication protocols
- Performed technical and financial feasibility studies (Phase 0) for major plant upgrades

KPI Incorporated   **Indianapolis, IN**
  Engineering Intern   **June 2020 – Aug. 2020**
- Assisted in the design and drafting of custom conveyor systems using CAD software, supporting client-specific material handling needs

Rose-Hulman Institute of Technology   **Terre Haute, IN**
  Laboratory Assistant   **Aug. 2017 – May 2021**
- Collected and analyzed experimental data using Excel, MATLAB, and LabVIEW for coursework and research

EDUCATION

Georgia Institute of Technology   **Atlanta, GA**
  M.S. Computer Science (In Progress)   **Expected 2028**

Rose-Hulman Institute of Technology   **Terre Haute, IN**
  B.S. Mechanical Engineering, Minor in Mathematics   **Aug. 2017 – May 2021**

SKILLS

Languages: Python, SQL (Postgres, MSSQL), Java, Go, JavaScript, HTML, CSS
Cloud & DevOps: AWS (Lambda, API Gateway, EC2, EMR, ECS, ECR, RDS, DynamoDB, Redshift, Cloudwatch), OCI, Docker, Kubernetes, Flyway, Terraform, Ansible
Data: Spark, Airflow, Pandas, Hadoop, Power BI
Other: Auth0, Stripe, Agile/Scrum