

Kaleb Shah

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EDUCATION

Georgia Institute of Technology (ongoing)

Masters of Science - Computer Science

Specialization: Machine Learning

Coursework: Software Development, Data Science, Graph Theory, Linear Algebra, Financial Accounting, Operating Systems & Computer Architecture, Machine Learning, Statistical Modelling, Econometrics

Programming & Skills: Ruby, Rails, PostgreSQL, Python, Pytorch, Scikit-learn, R, RStudio, C, Java, JavaScript, Bootstrap, CSS, HTML, Stata, LaTeX, DrRacket (Lisp), MIPS Assembly

WORK EXPERIENCE

Merchants Bonding Company

Des Moines, Iowa

Junior Software Developer

July 2024 – Present

Software Developer Intern

May 2023 – Aug 2023

- Overhauled surety bond underwriting by replacing chaotic email threads with a centralized platform for communication, file management via AWS S3 and approvals, saving 30 minutes daily per underwriter and \$220,000 annually in labor costs.
- Developed an automated PDF processing system for financial statements using OCR through AWS textract and bedrock, streamlining manual data entry reducing processing time by 75% with estimated annual savings of \$105,000 in labor costs.
- Implemented a database optimization initiative to consolidate 500,000 duplicate account records, implementing automated de-duplication algorithms, reducing IT support tickets by 20% and saving estimated \$50,000 annually in man-hour costs.
- Researched Heroku alternatives like AWS DynamoDB and migrated Redis/Postgres for monolith and 13 microservices to DigitalOcean, automating backups and uploads with Ruby scripts to cut hosting costs by 50%, saving \$250,000 annually.

IIFL Capital & Securities

Mumbai, India

Investment Banking Intern

May 2022 - August 2022

- Analyzed several key transactions, including IPO deals with companies valued from \$10Mn to \$1Bn by creating & maintaining ~10 excel models with macros for ongoing projects.
- Achieved proficiency in industry software such as Bloomberg Terminal, CapitalIQ and Advanced Excel with Macros.
- Assisted VP's by conducting due diligence & helped prepare 4+ pitch decks of IPO companies for clients with information such as DCF Models, Comps, PE Ratios, etc.

NI-MET Metals

Toronto, Ontario

Software Development Intern

February 2021 - June 2021

- Developed a Ruby on Rails web app with an 80% adoption rate amongst all traders in the company.
- Designed a UI displaying real-time metal prices using websockets & third-party APIs, reducing research time by 30 minutes a day for power users.
- Implemented a PostgreSQL relational database for metal transactions data & deployed the application on Heroku.

Access Asset Managers

Mumbai, India

Financial Data Analytics Intern

May 2020 - Nov 2020

- Conducted market research on Indian Telecom Industry's ongoing 4G/5G spectrum auction bids & potential returns through Leverage Buyouts of ancillary businesses.
- Extracted, cleaned and visualized market data from over 120 websites using python and libraries such as BeautifulSoup, Pandas and Matplotlib to identify confounding variables in business valuations..
- Conducted in-depth research on 6 major Telecom players & presented briefings for partners with PowerPoint & Excel.
- Collaborated with analysts & associates by creating NPV valuations, cost-benefit analysis, cash-flow forecasts & projections on market players.

PROJECT & RESEARCH EXPERIENCE

Recreating LipNet: End-to-End Sentence-level Lip Readings Neural Network

Pytorch, Scikit-learn

Recreated a tensorflow implementation of LipNet in Pytorch and benchmarked the resulting model to evaluate efficiency.

Impact of Earthquakes on Educational and Household Outcomes

STATA, R, RStudio

Mapped villages to earthquake centers to analyze causal effects on educational and household outcomes in rural Pakistan.

Mental Illness & Fatal Police Shooting

STATA, Python, RStudio

Research on the causal relationship between Mental Illness & Fatal shootings by police officers using diff-in-diff.

Gender representation across STEM majors

R, RStudio

Research on female student representation in STEM majors at Grinnell College using time-series & multivariable regressions.

DISTINCTION

Scholarships: JAINA Academic Scholarship, R. Jeannine 'Spud' Lyerly '53 Scholarship

Leadership Roles

Pioneer Capital Investment Member - Helped manage the student-run endowment of \$150,000.

Debate team co-chair - Participated in 7+ inter-collegiate debate tournaments across the country.

Project Repos: [LipReading AI](#), [NBA Shot Tracker](#), [NYC Segregation Explorer](#), [Personal Portfolio Website](#)