Nitesh Mathur

435 S. Linn St, Apt. #919, Iowa City, Iowa, 52240
(918) 704-0987; nitesh-mathur@uiowa.edu

EDUCATION

Ph.D. in Mathematics   Expected Graduation   December 2023
The University of Iowa (UI), Iowa City, IA, GPA: 3.88
- *Post-Comprehensive Research Fellowship, Kleinfeld Award for Student Research Publication*

M.S. in Applied Mathematics   Graduated   May 2019
The University of Tulsa (TU), Tulsa, OK, GPA: 4.00

B.S. in Mathematics, *Magna Cum Laude*   Graduated   May 2018
The University of Tulsa, Tulsa, OK, GPA: 3.967
- *Presidential Scholar, Honors Scholar, Tulsa Undergraduate Research (TURC) Scholar*
- Minors: Computer Science & Music

WORK EXPERIENCE

Data Engineering Intern–Principal Financial Group   May 2022-July 2022
- Implemented data pipeline to calculate DORA metrics by extracting data via Github & Azure APIs
- Produced dashboard in AWS QuickSight and implemented project in AWS CDK with Python
- Built website using React & Node.js for Personalized Onboarding Experience in IT Code Jam

IT Intern–Bank of Oklahoma Financial Corporation (BOKF)
Accelerated Career Track (ACT) Program
IT Service Management and Automation Team   May 2018—May 2019
- Assisted in company-wide deployment of ServiceNow from beginning to the GoLive phase
- Generated a digital dashboard by using R & SQL to streamline bank's prospecting

Bank Data Warehouse & Salesforce Teams   May 2017—Aug 2017
- Eliminated technical debt by improving regression testing from 72% to 95% in Apex (Salesforce)
- Investigated implementation of a new service management tool for 'Battle of the Interns' project
- Composed a 15-page white paper and delivered 30-minute group presentation for bank executives

SOFTWARE SKILLS

- **Data Analysis:** Python, R, SQL, Jupyter Notebook, Java
  - Libraries: Keras, Tensorflow, NumPy, Pandas, Matplotlib
  - Visualization: PowerBI, Tableau, R Shiny, Cognos, D3, Visualization Tookit (VTK)
- **AWS:** Lambda, Step Functions, S3, Glue, DynamoDB, QuickSight, Amplify, API Gateway
- **Version Control:** Github, GitKraken, CI/CD (Azure Pipelines)
- **IT:** ServiceNow, Apex/Salesforce, SCRUM/Agile, configuration management (CMDB)
- **Math Programming:** LaTex, Mathematica, Matlab, XPP
- **Web Development***: HTML, CSS, React, Node.js
- **Microsoft:** Excel, Access, Word, PowerPoint, SharePoint
- Creator/writer of sports website & blog

PUBLICATIONS

Li, T. Mathur, N (2021). Riemann Problem for A Non-Strictly Hyperbolic System In Chemotaxis. *Discrete and Continuous Dynamical Systems Series B*. Published Online. doi: 10.3934/dcdsb.2021128

CERTIFICATIONS & RELATED COURSEWORK

Deep Learning Specialization by Andrew Ng (Coursera)   Dec 2021
Statistical Learning, Stochastic Modeling, Quantum Computing, Bioinformatics, Numerical Optimization

LEADERSHIP & ACTIVITIES

Webmaster, Mathematics Graduate Board (MGB) (UI)   Jan 2022—present
Graduate & Undergraduate Student Seminar Organizer (GAUSS), (UI)   Jan 2021—Dec 2021
Founder/President of Circle K International (TU)   Nov 2015—May 2017
Violinist – TU Symphony Orchestra, Campus Symphony Orchestra (UI)   Aug 2008—present
Phi Kappa Phi, SIAM (Society for Industrial and Applied Mathematics), Kiwanis

HONORS AND AWARDS

Ralph W. Veatch Award in Mathematics (TU)   April 2018
National Merit Scholar, Valedictorian, & Student of the Year   Aug 2014—May 2015