

TIM CHEN

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Education

University of Toronto Honours Bachelor of Science in Mathematics (Probability & Statistics)	Toronto, ON Expected Graduation 2026
<ul style="list-style-type: none">• Minors: Computer Science, Statistics• Relevant Coursework: Machine Learning, Data Analysis I & II, Databases, Statistical Theory, Software Tools and Systems Programming, Software Design, Computer Programming, Mathematical Theory of Finance	

Professional Experience

Frontend Software Engineer Intern MAYOHR	Taipei, Taiwan May 2024 – August 2024
<ul style="list-style-type: none">• Core-engineered on MAYOHR's Frontend, delivering features using TypeScript, RESTful APIs, and React.• Developed a high-traffic website with TypeScript, HTML, and CSS, cutting resolution time by 30%.• Simulated and analyzed data sets with Python for front-end testing, cutting integration bottlenecks 25%.• Designed data-access features with product managers, streamlining troubleshooting, boosting efficiency 40%.	

Activities

Events Executive ROCSAUT - University of Toronto	Toronto, ON April 2023 – March 2024
<ul style="list-style-type: none">• Organized large-scale events for 250+ attendees, cutting costs by 15% while adhering to university policies.• Conducted Excel-based analyses (Pivot Tables) to optimize logistics, enhancing efficiency and mitigating risks.• Demonstrated strong communication and organizational skills in a fast-paced environment, managing activities.	

Projects

Toronto Crime Analysis R, Quarto	December 2024
<ul style="list-style-type: none">• Developed an interactive report analyzing violent crime patterns in Toronto using Bayesian logistic regression.	
HoopsHub Java, Python	December 2024
<ul style="list-style-type: none">• Designed an interactive app for managing user accounts and analyzing NBA statistics with a guessing game.	
Forecasting the 2024 U.S. Presidential Election R, Quarto	November 2024
<ul style="list-style-type: none">• Built a state-level forecast to predict Electoral College outcomes using regression models and polling data.	
Toronto Shelter Analysis R, Quarto	September 2024
<ul style="list-style-type: none">• Conducted a detailed analysis of shelter trends, uncovering high demand and winter spikes in Toronto.	
Analyzing Traffic Collisions in Toronto Tableau	April 2024
<ul style="list-style-type: none">• Explored temporal and spatial patterns of traffic collisions in Toronto using interactive Tableau dashboards.	
Bike Theft Analysis R, R Markdown	March 2024
<ul style="list-style-type: none">• Developed a report analyzing bike theft patterns in Toronto, highlighting high-risk areas, times, and bike types.	

Skills

- **Languages:** Python, SQL, R, TypeScript, JavaScript, Java, C, Excel, Power BI, Tableau
- **Technologies:** R Markdown, Quarto, RESTful APIs, Git, GitHub, Azure DevOps, React, HTML, CSS
- **Concepts:** Data Analysis, Statistical Analysis, Data Visualization, Machine Learning, Data Cleaning, Database, Data Structures and Algorithms, Analytical Thinking, Problem-Solving, Frontend Development
- **Certifications:** Google Data Analytics Professional Certificate: (Data Analysis, Data Cleaning, Visualization, SQL, Tableau, and R.) Includes hands-on practice in preparing, analyzing data, and creating dashboards for insights.