

Navneeth Dhamotharan

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EDUCATION

University of Washington - Seattle

Seattle, WA

B.S Informatics: Data Science, B.A Economics(GPA: 3.54/4.0)

Expected Jun. 2027

Relevant Coursework: Data Structures and Algorithms, Data Science Fundamentals (R), Exploratory and Statistical Data Analysis (R), Object-Oriented Programming (Java), Intermediate Data Programming (Python), Databases

EXPERIENCE

Incoming Director

Sep. 2025

Eat Together | eat-together.org

Seattle, WA

- Lead a startup at The University of Washington to connect **550+ students** over shared meals.

Data Science Intern

Jun. 2025 – Present

FlyDubai

Dubai, UAE

- Developed models to predict flight delay accuracy for **600,000+ rows** and **90+ features** with an **80% R^2** .
- **Integrated** data from **5+** sources to build the ETL + **ML pipeline** using AWS Step Functions and SageMaker.
- Optimized **operational efficiency** by **3%** through a **PuLP-based** linear programming **optimizer** in Python.
- Achieved **30% improvement** in sentiment analysis accuracy by testing **3 prompting techniques** on Amazon Bedrock.

Software Engineer | github.com/swecc-uw

Apr. 2025 – Present

Software Engineering Career Club | swecc.org

Seattle, WA

- Led SWECC Labs, mentoring **35+ students** to open-source development for career growth.
- Improved the job search process for **2000+** aspiring software engineers by developing and enhancing platforms across **38+** repositories

Development Lead

Dec. 2024 – Present

Eat Together

Seattle, WA

- Led a team of **6 developers** for a **student-led startup** by enhancing engagement for **500+ users**.
- Added **30 users** by redeveloping the website, app availability selection, and developing a community Discord bot.
- Reduced code review time by **20%** through hands-on workshops and feedback sessions, **mentoring 20+ developers** in React Native(Expo), Git, and Google Cloud Platform for a cross-functional **cohort of 35**.

Software Engineer

Jan. 2024 – Dec. 2024

Eat Together

Seattle, WA

- Enhanced media management by developing a **photo gallery** using React Native and Expo Image Picker.
- Integrated **Firebase** for seamless image storage and retrieval, optimizing app performance and user interaction.
- Scaled the app to **400+ users** by enhancing core functionality through batch processing and load reduction.
- Resolved **35+** UI bugs and **8+** critical issues, improving app stability and user experience.

PROJECTS

DataMed | *Python, Scikit-learn, Matplotlib, Seaborn, Optuna* | [Link to Repository](#)

Apr. 2025

- Predicted costs for **1.2M healthcare records** using Pandas and Scikit-learn, achieving **99% data retention**.
- Engineered features with Scikit-learn's LabelEncoder, transforming **4** categorical variables for model readiness.
- Tuned hyperparameters for predictive modeling using **Scikit-learn** and **Optuna**, improving prediction accuracy.
- Awarded **3rd place for Best Machine Learning Model** in the **6th DubsTech Datathon**.

Macro Scope | *Scikit-learn, Seaborn, Pandas, XGBoost* | [Link to Repository](#)

May. 2025 - Jun. 2025

- Processed **400K+ IMF** records with GeoPandas, integrating fiscal and balance-of-payments data, for analysis.
- Generated **6 trend charts** with **Seaborn/Matplotlib** to visualize indicators and support inflation predictions.
- Improved prediction accuracy by **20%**, reducing **RMSE** from 2.899 to **2.309** and maintaining MAE under **1.21** through Random Forest optimization, hyperparameter tuning, and k-fold cross validation.

NCAA Basketball | *R, ggplot2, dplyr* | [Link to Repository](#)

Dec. 2024

- Analyzed **20 years** of men's college basketball free throws across **300K+** rows from three datasets.
- Calculated a **25%** correlation between regular season free throws and NCAA tournament wins.
- Merged datasets, created **10+** analysis **columns**, cleaned missing values, and visualized success rates.

TECHNICAL SKILLS

Languages & Frameworks: Java, Python, SQL(Postgres), JavaScript, HTML/CSS, R, \LaTeX , React, Node.js, Svelte

Tools: Git, Google Cloud Platform(GCP), VS Code, Visual Studio, PyCharm, IntelliJ, Homebrew, Firebase, RStudio, Docker, bash, AWS(Lambda, Amplify, S3, EC2, Step Functions), Jupyter Notebook, MS Office, Azure DevOps

Libraries: Pandas, NumPy, Matplotlib, Seaborn, Geopandas, TensorFlow, SciKitLearn, tidyverse(ggplot2, dplyr)