

ANIRUDDHA KHAN

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Education

Bachelor of Science in Computer Science

Sep. 2021 – Present

University of Calgary

Calgary, Alberta

Relevant Coursework: Computing Machinery, Software Design, Algorithms Analysis, Computer Networks, Operating Systems, Data Structures, Systems Programming, Database Management

Technical Skills

Languages: Dart, Javascript, HTML, CSS, C, Assembly, PHP, C++, SQL

Developer Tools: Git, Unix, Github, VSCode, Android Studio, Jira, Slack, Postman

Technologies/Frameworks: Laravel, React, Flutter, Typescript, Next.js, Tailwind, Node.js, Hashlib, Matlab, Seaborn, Pandas, Scikitlearn

Experience

Modular Solutions

Jan 2025 – present

Junior Product Development Intern

Calgary, Alberta

- Engineered an AI-driven documentation system using Python and LLMs, automating the transformation of source code into structured guides, reducing manual documentation effort by 80% and improving onboarding efficiency for internal product designers and clients
- Designed and implemented over 50+ complex insurance rules in JavaScript for the company's proprietary rules and rating engine, enhancing pricing accuracy and reducing policy configuration time by 40%.
- Developed reusable backend services in C#/.NET and modular React UI components, reducing redundant development effort by significant amount and accelerating feature delivery cycles by 25%
- Applied Domain-Driven Design (DDD) principles to improve software architecture, reducing technical debt and increasing development efficiency, contributing to a 15% improvement in sprint velocity and smoother cross-team collaboration.

Carasti Car Subscriptions

July 2024 – August 2024

Software Engineering Intern

Dubai, United Arab Emirates

- Implemented 10+ UI/UX enhancements, resulting in a 20% increase in user engagement based on app analytics.
- Layed a key role in maintaining backend systems with Laravel, ensuring seamless app integration.
- Developed and integrated RESTful APIs to enhance communication between mobile and backend services.
- Optimized 10+ MySQL queries, cutting down query execution time by 30%. Collaborated with senior developers and team members, demonstrating strong teamwork and communication skills.

Projects

Job Quest | PHP, Laravel, MySQL, Tailwind CSS, JavaScript, Postman, Adminer

August 2024

- Developed a full-stack job board application using PHP and Laravel, enabling users to search, filter, and apply for jobs, with secure authentication and employer functionalities.
- Implemented advanced job search features, including filtering by salary, experience, and category, leveraging Laravel's Query Builder and Eloquent ORM
- Designed a responsive UI with Tailwind CSS and Breadcrumbs Navigation, enhancing user experience across the platform.
- Tested API endpoints using Postman and managed the database with Adminer, following the MVC architecture.

Twitter Sentiment Analysis using NLP | Python, Sklearn, NLTK, Pandas, Seaborn, Matplotlib

May 2023

- Conducted Twitter Sentiment Analysis using Natural Language Processing (NLP) techniques, focusing on hate speech detection in tweets.
- Performed essential preprocessing, exploratory data analysis (EDA), and feature extraction on a dataset of 31,962 labeled tweets.
- Developed machine learning models to classify tweets as racist/sexist (label '1') or non-racist/sexist (label '0'), achieving the project's objective of hate speech detection.

Password Manager | Python, Hashlib, Encryption, SQLite

December 2022

- Developed a comprehensive Password Manager using Python that securely stores and manages passwords with a user-friendly interface
- Uses SHA-256 hashing for password security and SQLite for database storage.
- Features user registration, login, password storage, and generation
- Employs strong encryption and hashed passwords for enhanced security.