Jirachote Karunyakorn

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WORK EXPERIENCE

- **ATGenes Co. Ltd.**   **(July 2022-Present)**
  - *Business analyst/ Data analyst*
  - Establishing bioinformatics pipelines for the calling and prioritizing of variants to uncover pathogenic mutation with direct relevance to diagnoses from physicians, utilizing whole exome and whole genome sequencing data.
  - Designing and implementing functional modules for bioinformatics platform which improving the efficiency and accuracy of clinical mutation analysis algorithms.
  - Creating test cases and conducting software testing to ensure accurate execution of clinical mutation analysis algorithms while effectively identifying and resolving any software issues.
  - Led the creation of initial UX/UI designs and platform wireframes, resulting in a user-friendly and intuitive interface for end users.
  - Designing comprehensive technical medical reports on audited pathogenic variants for physicians.
  - Collaborating with international companies and government entities, facilitating productive project outcomes and establishing valuable partnerships.
  - Providing strategic input for business development and marketing, including sales strategies and competitor analysis.
  - Engaging in research and development activities to innovate new functions for the analysis platform.
  - Performing data analysis with SQL and python on internal datasets for research purposes and contributing to the formulation of corporate strategies by create interactive dashboard with Looker studios.
- **Bluefin Life Technologies**   **(November 2022-May 2023)**
  - *Part-time Data analyst*
  - Developed analysis pipelines using SQL and Python, enabling pathway enrichment analysis and modeling for curcumin's mode of action, yielding valuable insights for research.

- **EPA Academic Center**   **(January 2022-May 2022)**
  - *Part-time biology teacher*
- **Math talent by Dr. Ying**   **(December 2022-March 2022)**
  - *Part-time science teacher*

ACADEMIC EXPERIENCE

- **Department of Biochemistry, Faculty of Medicine Chulalongkorn University**   **(October 2020-July 2022)**
  - *Graduate student and researcher*
  - Main project: Computational workflow development for identification of polyadenylated RNA in prokaryote from direct RNA nanopore sequencing data with polyuridylation
  - Collaborate project: Using Xpore to build M^6-Methyladenosine (m6a) signal database
  - Advisor Pornchai Kaewsapsak Ph.D.
- **Department of Biology, Faculty of Science, Mahidol University**
             (April 2019-April 2020)
  - *Undergraduate student*
  - Project title: Comparative phylogeny and DNA barcode of Asian Centipede in genus *Scolopendra* linnaeus, 1758
  - Advisor Warut Siriwut Ph.D.

EDUCATION

- **Chulalongkorn University**   **(2020-2022)**
  - Graduated school, M.Sc. in Bioinformatics and Computational Biology Program
  - GPAX 4.00
- **Mahidol University**   **(2016-2019)**
  - Faculty of Science, B.Sc. in Biology
  - GPAX 3.71 (First Honor degree)

AWARDS

- **H.M. the King Bhumibhol Adulyadej's 72nd Birthday Anniversary Scholarship (fully funded)** **(2020)**
  Graduated student scholarship with full paid tuition fee and monthly salary

- **MU-backpack scholarship (fully funded)** **(2018)**
  The short-term cultural exchange study in Vietnam

- **HOK scholarship (half funded)** **(2015)**
  The short-term exchange secondary student in Singapore

CERTIFICATES

- **Google Data Analytics** **(2023)**
  Including hands-on, practice-based assessments in data Analytics with spreadsheets, SQL, R and Tableau.

- **Google Advanced Data Analytics** **(2023)**
  Including hands-on, practice-based assessments in data science such as basic machine learning and exploratory data analysis with python.

- **Google Business Intelligence** **(2023)**
  Including hands-on, practice-based assessments in business intelligence such as creating processes that transform data into actionable insights to inform business decisions and building dashboards that employ design best practices to meet stakeholder needs.

WORK SKILLS

- **Programming language**
  - Bash (Basic)
  - R (Intermediate)
  - Python (Intermediate)
  - SQL (Intermediate)
  - HTML5, CSS3 and Javascript (Basic)
  - DAX (Basic)
  - Excel formula (Basic)
- **Data analysis skill**
  - Data wrangling and manipulation (Pandas, Scipy, Numpy, etc.)
  - Data visualization (ggplot, dplyr, matplotlib, etc.)
  - Basic Machine learning with scikit-learn (Clustering, Regression, Classification)
  - Prompt engineering for generative AI
  - Basic web scraping with BeautifulSoup4

- o   Database querying with MySQL
- o   Dashboard and report design
- o   Statistical analysis
- **Dashboard design platform**
  - o   PowerBI (Intermediate)
  - o   Tableau (Basic)
  - o   Looker studio (Intermediate)
- **Version control**
  - o   Git (Basic)
  - o   Docker (Basic)
- **Soft skills**
  - o   Data-driven problem-solving through investigation, analysis, reporting, and action
  - o   Continuous learning and adaptability
  - o   Strong teamwork and communication
  - o   Positive growth mindset
  - o   Proficient in Agile methodology

LANGUAGES

- Thai (Native)
- English (Intermediate Working Proficiency, TOELF ITP 513)
- Japanese (Basic, JPLT N5)