

# Varot Pavaritpong

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## Education

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**University of British Columbia**

*B.A. in Computer Science*

**Expected Graduation: May 2027**

*Vancouver, Canada*

## Experience

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**IFS Copperleaf**

*Software Developer - PlatOps (Co-op)*

**September 2025 – Present**

*Vancouver, BC*

- Deployed an Azure-based Nginx reverse proxy (TFSPProxy) with regional static IPs to enable secure connectivity between C55 deployment extensions and internal Copperleaf services
- Built a repeatable Azure-native C55 deployment framework by automating key installation steps such as artifact handling, configuration generation, licensing, and database provisioning.
- Developed cloud-aware deployment extensions by implementing shared utilities for provider detection, centralized logic, and testing, improving consistency and maintainability across deployments

**Agoda (Booking Holdings)**

*Infrastructure Intern*

**June 2025 – August 2025**

*Bangkok, Thailand*

- Enabled real-time SSD utilization and power monitoring for 6000+ ILO servers by extending Go-based scanning tools and integrating metrics into Whitefalcon and Grafana, creating time-series dashboards with histograms, gauges, and statistics to improve predictive maintenance and hardware lifecycle planning.
- Reduced manual intervention and enhanced infrastructure team visibility by automating the collection and Grafana-based visualization of time-sensitive server metrics, enabling faster issue detection through intuitive dashboards.

**Trippy Global**

*Full Stack Developer (Mobile)*

**Nov 2024 – May 2025**

*Remote*

- Led integration of Meta's Graph API with SpringBoot backend, implementing database caching to overcome API rate limits (30 calls/7 days) and ensure uninterrupted data access
- Designed and implemented a contribution reward system modeled after Google Maps, gamifying data input and increasing user engagement
- Designed and implemented 3 key iOS screens using React Native and Expo, reducing development time by 50% compared to native development

## Technical Projects

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**PhishPatrol** | *Twilio, OpenAI API, Elevenlabs, Nextjs, Snowflake*

**October 2025**

- Built real-time voice security simulator with Twilio, Paraformer/Whisper, GPT-4, ElevenLabs (FastAPI/WebSockets); auto-posts JSON debriefs to /api/security-assessments
- Delivered full-stack app (Next.js, FastAPI+Snowflake, click-to-call); automated scoring and actionable security insights

**Airbnb Popularity Predictor (Academic)** | *JupyterLab, Scikit-learn, Matlab*

**October 2024**

- Built a LightGBM model to predict Airbnb listing popularity with 62% R<sup>2</sup> score on test set
- Engineered 20+ features, including temporal and location-based data, using one-hot encoding and scaling
- Created geospatial and distribution visualizations to analyze patterns across 50,000+ NYC listings
- Benchmarked multiple models (Ridge, KNN, Random Forest) to compare prediction accuracy

**CatClicker (Academic)** | *Java, JavaSwing, Lanterna, JUnit*

**Sep 2023 – Jan 2024**

- Built a zoo-themed Java clicker game with save/load functionality using JSON
- Implemented GUI with Java Swing and managed persistent state and event interactions

## Technical Skills

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**Languages:** Golang, Python, Java, SQL, C++

**Frameworks & Libraries:** SpringBoot, Node.js, Swagger, Hadoop, Jest

**Other Tools:** GitLab, Docker, Kubernetes, AWS, Postman, Datagrip