

# Namanh Bui Vu

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## EDUCATION

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### Technische Universität Hamburg (TUHH)

Bachelor of Science in Computer Science

Hamburg, Germany

Oct 2024 – Expected Aug 2027

– Coursework: Data Structures & Algorithms, OOP, Databases, Computer Networks, Discrete Mathematics, C/C++, Python, Haskell

### National University of Singapore (NUS)

Incoming Exchange Semester, Computer Science

Singapore

Jan 2027 – May 2027

– Planned Coursework: Software Engineering Principles & Patterns, Software Testing, Machine Learning, Artificial Intelligence

## EXPERIENCE

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### Arbio Group GmbH

Product Engineer Intern · NestJS, TypeScript, AWS, PostgreSQL

Berlin, Germany

May 2026 – Present

- Designed a provider-neutral lock platform for 1,000+ smart locks, integrating Nuki/Akiles via typed adapters, idempotent sync jobs, normalized PMS models, REST APIs, and unit-tested provider-failure paths.
- Developed an inbound guest voice-agent pipeline using ASR-LLM tool calling-TTS; piloted on 48 apartments in Berlin, Hamburg, and Vienna with AI-vs-human A/B tests.
- Implemented a Nexus 2.0 onboarding workflow tool, adapting the Airbnb hackathon prototype into guided knowledge retrieval and operational task creation.

### Position One GmbH

Working Student, AI Automation · Python, OpenAI API, n8n, PostgreSQL

Hamburg, Germany

Sep 2025 – Apr 2026

- Built automation workflows across sales, operations, and e-commerce with Python, OpenAI API, PostgreSQL, and n8n, saving 15+ hours/week; introduced reusable agent templates through hands-on workshops.
- Built a one-click Shopware 6 affiliate-store generator with product imports, delta checks, LLM-generated pages, and logs across 1,000+ SKUs.

### Flohh

Co-Founder & Engineer · Next.js, FastAPI, PostgreSQL, Docker

Hamburg, Germany

Dec 2025 – Apr 2026

- Built a closed campus marketplace with Next.js, FastAPI, PostgreSQL, and Docker, covering auth, listings, search, and transaction flows as sole engineer.

### Technische Universität Hamburg

CS Tutor, “Starting” Program · C, Python

Hamburg, Germany

Oct 2025 – Jan 2026

- Mentored 25+ first-semester CS students in C/Python.

## PROJECTS

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### Airbn – AI Property Management Platform

GPT-4o, OpenCV, Flask, FastAPI, Node.js, WhatsApp API

GitHub

- 1st Place Arbio Track + 3rd Overall at {Tech: Europe} Hackathon; built voice-first guest support, WhatsApp automation, and checkout-photo damage detection.

### Dip – Give LLMs Eyes

Python, Google Gemini API, Screen Capture

- 1st Place, Google DeepMind Gemini Track at Cursor AI Hackathon; streamed real-time screen context into Gemini for pair-programming/debugging workflows.

### Mindflayer – Semantic Social Media Filter

Chrome Extension, JavaScript, Google Gemini API

GitHub

- 1st Place Overall, \$2,000 prize at CodeRabbit × Windsurf Hackathon; built a Gemini-powered extension for real-time social-media feed filtering.

### Football Prediction Models

Python, CatBoost, scikit-learn, pandas, pytest

GitHub

- Built leakage-safe match prediction pipelines with CatBoost, SHAP feature selection, calibration, and walk-forward validation; backtested a Serie A draw-gap strategy with >30% ROI over the last 8 seasons.

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript/JavaScript, C, C++, SQL, Haskell

**Frontend:** React, Next.js, TailwindCSS | **Backend:** NestJS, FastAPI, Flask, Node.js, REST APIs, PostgreSQL

**Systems & Cloud:** Docker, AWS ECS/SNS/SQS/S3/Lambda, CI/CD, Git, Microservices | **AI / ML:** OpenAI API, Gemini API, Anthropic API, RAG, OpenCV, CatBoost, scikit-learn | **Spoken:** German native, English fluent