

# VICHEA NATH

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## BACKEND DEVELOPER

Passionate full-stack developer with almost 3 years of expertise in crafting dynamic web applications for the gaming and gambling/betting industry using Django and React. Proficient in driving success throughout the Software Development Life Cycle (SDLC), by proficiently designing, deploying, and maintaining robust applications. I bring a meticulous approach to detail and a commitment to delivering high-quality user experiences, with a strong foundation in UX/UI design. Continuously adapting to the evolving landscape of modern enterprise software development.

Object-oriented programming • SOLID principles • CI/CD • Test-driven development  
Cloud Computing • Agile • Socket Programming • UI/UX • Functional Programming

**Languages:** Python, JavaScript, Java

**Web:** ReactJS, HTML, CSS, SASS

**Web Services:** REST, GraphQL, WebSocket, XML, JSON

**Web/App Servers:** Nginx, cPanel, Nodejs

**Frameworks:** Django, React, SpringFramework, ExpressJS

**Databases:** MySQL, Postgres, MongoDB

**Design Patterns:** Singleton, Factory Method, Builder Pattern

**SDLC:** Agile, SCRUM

**Tools:** VSCode, Postman, NPM

**Platforms:** Windows, Linux, Mac

**Big Data:** Pandas, Jupyter Notebook, Numpy, PowerBI

**Application/Software:** AWS, Github, Gitlab, Postman, Figma, Star UML, VS Code, Trello, Jira, Norton, Docker, Microsoft360

## PROFESSIONAL EXPERIENCE

**CAREER NOTE:** Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

### PHVCT A2888 CO., LTD, Phnom Penh, Cambodia • 06/2021 – 07/2023

Online Game and Sports Betting Site Company..

#### Senior Software Engineer (10/2021 – 07/2023)

- Engineered a Credit Deposit API for a Betting Site using Django/Rest Framework, Redis, Celery, PostgreSQL, React, and Database Concurrency, ensuring top security and robust functionality.
- Developed two board games with Node.js, React, and Socket.IO involving creating a robust and interactive platform for real-time gaming experiences.
- Established a Web Application Firewall (WAF) to safeguard against DDoS attacks, effectively managing and protecting the server from attackers launching 10 billion requests in a day through Cloudflare.
- Administered the Git Repository and configured a testing environment using CI/CD tools (GitLab CI/CD / GitHub Action) as well as conducted code reviews and approved pull requests ensuring code quality, fostering collaboration, and enabling smooth and transparent testing of the system.
- Successfully migrated Excel-based business process data to a Django and ReactJS-powered Agent Management System, achieved a 50% reduction in time spent on locating agents, and enhanced data accuracy by 25%.
- Integrated real-time Video Streaming (WebRTC) with Ant Media, an open-source video streaming platform, to achieve low latency live streaming capabilities.
- Established integration with an outsourced web betting platform and implemented Data Scraping for sports betting data analysis for informed decision-making to optimize betting strategies and maximize returns.

**Technologies Used:** Django, ReactJS, Express JS, Socket IO, MySQL, Nginx, GitHub, Gitlab, Gitlab (CI/CD), AWS, A2Hosting

#### Junior Software Engineer (06/2021 – 10/2021)

- Successfully implemented an Authentication Feature for a betting site using jQuery, securely authenticating users by calling API endpoints.

Designed and developed the home page for a sports betting website using Python Django, JavaScript, and SASS.

- Implemented responsive design for seamless experiences across devices and conducted A/B testing resulting in a 25% boost in conversion rates.
- Designed the UI for martial arts betting and Call Betting API Service using JavaScript resulting in a 40% increase in user retention.

**Technologies Used:** HTML, CSS, JavaScript, Python, Django, Adobe XD, Figma, Google Sheets, Adobe Photoshop, Adobe Illustrator

### **PLAN-B CAMBODIA, Phnom Penh, Cambodia • 09/2020 – 06/2021**

Specializes in developing online betting websites, and Casino Systems for clients and selling by themselves..

#### **UX/UI Designer**

- Accountable for executing tasks as directed by the leader to ensure the project timeline meets the specified deadline.
- Collaborated in designing the mobile app UI for an E-commerce/Matching App platform, contributing to increased user engagement by 25% through user-centered design principles.
- Implemented SEO for the website utilizing PHP, HTML, and CSS, increased organic search traffic to the website by 30% within six months.

**Technologies Used:** PHP, HTML, CSS, Google Search Console, Adobe XD, Figma, Google Sheets, Adobe Photoshop, Adobe Illustrator

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### **ACADEMIC PROJECT**

**Maharishi International University (2024) Mini Property Management System:** Real Estate Management System facilitates property searching, offers management, and user administration for customers, owners, and administrators. With its streamlined processes and user-friendly interface, it efficiently caters to the diverse needs of all stakeholders involved in property management. ***Utilized Spring Boot, PostgreSQL, JPA Hibernate, Spring Security, Docker, React, React Query, Zod.***

### **EDUCATION**

#### **Master in Computer Science**

*(In progress via distance education; expected completion 06/2026)*

Maharishi International University, Fairfield, Iowa

**Key Courses:** Algorithms, Web Application Architecture, Software Engineering

#### **Bachelor in Computer Science and Engineering**

Royal University of Phnom Penh, Phnom Penh, Cambodia (2022)

### **CERTIFICATIONS**

[AWS Cloud Technical Essentials](#)

[DevOps Deployment Automation with Terraform, AWS, and Docker](#)

[Introduction to Back-End Development](#)