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## Chan Bernard Ki Hong (陳祺康)

Personal data omitted  
in Web version.

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### EXECUTIVE SUMMARY

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A professional web application developer who has always been keen in keeping abreast of the best practice in software engineering, with extensive exposure to a wide variety of client- and server- side Web technologies.

I am open to exciting career opportunities in the area of web application development that allow me to participate in the design and development of sophisticated web applications, with opportunities to assume some leadership responsibilities along the career path. I am also interested in capacities related to information or web security should opportunities arise.

A meticulous person fully dedicated to all the jobs taken, striving for excellence through continuous improvement, and always willing to share knowledge and expertise with others. Over the past decade I have been primarily involved in various scripting-based environments such as Perl and PHP throughout my career as a web developer, with a strong focus on building components with clear separation of concerns and high flexibility and reusability, the very tenets to the construction of reliable and scalable web applications.

Outside web development, I have a great interest in various aspects of information security, such as detection and mitigation of network-originated attacks, web application vulnerabilities and log management. My attention to details often overlooked by others also helps in refining the design and implementation of web applications for security.

I am comfortable with managing systems and developing from the Linux command line. I was appointed as moderator at one of the largest international Unix forums online in 2003 and remained in the position for 5 consecutive years.

### WORK EXPERIENCE

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GoAnimate Hong Kong Limited — *Hong Kong*

05/2009–Present

#### Senior Engineer (DevOps)

- GoAnimate is an online platform encompassing a suite of tools that allows users to make animated videos easily for communication, without requiring drawing skills and the use of expensive graphic software. GoAnimate was the winner of the Best Collaboration Grand Award, HKICT Awards 2012 through our previous collaboration with YouTube LLC.
- I started out joining the small team as a web developer, participated in the development and maintenance of the corporate website as well as hosted applications for valued partners such as YouTube, deployed on cloud infrastructure powered by Amazon Web Services (AWS).
- Engaged in architectural design and implementation of system components for high availability and scalability. Examples included establishment of the corporate internationalization framework based on gettext; conducted extensive application profiling to locate performance bottlenecks and uncover potential bugs; and integrated a third-party framework to allow certain I/O-bound activities triggered by web requests to execute in parallel instead of serially for significant performance optimization thus leading to improved user experience. Also responsible for the design and implementation of a framework to support achievements triggered by user activities based on an event-driven model.

- Gradually transitioned to a leading DevOps role following the tremendous growth of the company. Outside system administration, I was responsible for enhancement of web application security from various facets including design of overall security architecture, management of the corporate responsible disclosure program including investigation of submissions from security researchers, daily monitoring of security events, deployment of technical controls such as network- and application-layer firewalls, customization of ModSecurity CRS for compatibility with application setup, and performance of code reviews with an emphasis on security. In a recent security-driven development project, I have employed cryptographic principles in the design of the web application APIs introduced so as to counter tampering and replay attacks.
- Also performed some groundwork to assist in the fulfillment and maintenance of corporate PCIDSS compliance.

Mobile Clusters Limited — *Hong Kong*

01/2006–03/2009

### Software Engineer

- Software architect of the corporate VoIP voice infrastructure. Job duties included development of Perl programs for backend processing, integration of SIP servers such as Asterisk and OpenSER, as well as designing other supporting infrastructure for flexibility and scalability.
- Established a flexible infrastructure based on the Spring application framework to power the corporate Web site, utilizing open technologies such as JSP, Apache Tiles and JPA, with round-the-clock monitoring and anomaly alert facilities backed by JMX.

EDI Systems Services Limited — *Hong Kong*

02/2004–12/2005

### Analyst Programmer

- Project coordinator who oversaw the integration of two freight forwarding systems (ColdFusion and Java) onto a single platform (PHP5) with limited resources and tight deadline constraints; and participated in subsequent development of new features and refactoring of the resulting code base for better code and higher component reusability.
- Principal architect of the underlying application framework which served as the basis of future development projects, written in PHP with flexibility in mind.

## OTHER EXPERIENCE

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- **Perl 5 Tutorial** 2001–Present  
Wrote a tutorial covering the Perl programming language for free distribution on the Internet. Endorsed as reference material for several postgraduate and undergraduate courses offered by universities overseas, with frequent downloads recorded from behind various international corporations. The second edition featuring vastly expanded coverage is in preparation.

Currently published at <http://www.cbkihong.com/index.pl?op=perltut>.

## LANGUAGE SKILLS

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Native command of Cantonese. Good command of simplified Chinese and Putonghua.  
Good command of English. Particularly adept at reading and writing.

### Certification:

- *International English Language Testing System (IELTS): 7.5/9.0 (May 2003)*

## EDUCATION BACKGROUND

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Bachelor of Engineering in Computer Engineering  
University of Hong Kong

2000–2003

Raimondi College — *Hong Kong*

1987–2000

## TECHNICAL SKILLS

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**Operating Systems:**

GNU/Linux, Microsoft Windows, Mac OS X

**Web and Software Development:**

Perl, PHP, Node.js, Java, XML/XSLT, Unix shell scripting (e.g. bash, sed), HTML5, Subversion/Git, Apache/Nginx, MySQL

**Security Tools:**

Burp Suite, Backtrack/Kali Linux, Metasploit, tcpdump/Wireshark

**CAREER EXPECTATIONS**

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Expected Salary: HKD\$38,000-\$40,000/month

Availability: 2 months notice is required