

# Bill MacKenty, M.Ed.

## Experienced and Impactful Computer Science Educator

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## Objective

To inspire and empower students in computer science through **innovative teaching, real-world applications, and curriculum development.**

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## Professional Summary

Passionate and accomplished **computer science educator, curriculum designer, and published author** with over 25 years of experience in **technology education, instructional leadership, and software development.**

- **Co-author of the Oxford University Press IB Computer Science textbook**, a widely used global resource.
- Extensive experience in **IB curriculum development, assessment design, and teacher training.**
- Strong expertise in **computer science education, educational technology, and software engineering.**
- Dedicated to **developing rigorous, engaging curricula that prepare students for real-world problem-solving.**

# Professional Experience

## International Baccalaureate (IB)

**Consultant & Advisor** | 2019 – Present

- **Co-authored the Oxford University Press IB Computer Science textbook**, ensuring alignment with **IB SL & HL curricula**.
  - Designed **teacher support materials (TSM)**, **IA guidelines**, and **assessment structures** to enhance global IB instruction.
  - Provided expertise on **curriculum development, assessment, and pedagogy** for IB Computer Science.
  - Created **training programs and instructional materials** for IB teacher workshops.
  - Moderated **IA samples** to ensure assessment alignment.
  - Served as an **Assistant Examiner for the IB Computer Science Extended Essay**.
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## Computer Science Educator

**American School of Warsaw** | 2015 – Present

- Developed and implemented a **rigorous two-year IB Computer Science curriculum (SL & HL)**.
- Created and maintained [ComputerScienceWiki.org](https://www.computersciencewiki.org/), a widely used IB resource.
- Built and managed an **LMS to support independent study and self-paced learning**.
- Designed and led **project-based learning experiences**, mentoring students in **research and IB IA development**.

### Key Achievements:

- ✓ Developed a **five-pathway approach** to computing education.
  - ✓ Integrated **Python** as a core programming language.
  - ✓ Designed **comprehensive assessments and rubrics** for IB Computer Science.
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## Director of Technology

**American School of Warsaw** | 2010 – 2015

- Led **IT strategy, infrastructure, and operations** for a large international school.

- Spearheaded **major digital transformations**, including student information systems, LMS, and **Apple ecosystem integration**.
- Implemented a **web-based professional development platform** for staff training.

#### Key Achievements:

- ✓ Optimized IT operations with **ITIL best practices**, improving efficiency.
  - ✓ Introduced **follow-me printing**, reducing costs and increasing sustainability.
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### Instructional Designer

Hunter College Campus Schools – New York, NY | 2006 – 2010

- Launched a **1:1 laptop initiative**, training faculty on effective classroom technology use.
  - Developed **digital learning platforms** to enhance student engagement.
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### Computer Teacher & Systems Administrator

Edgartown School – Edgartown, MA | 2001 – 2006

- Designed and taught a **technology curriculum for grades 3-8**, focusing on **digital literacy, coding, and problem-solving**.
  - Managed **OS X-based school networks**, supporting students and faculty.
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### Education

- 🎓 **Master's Degree in Education** – Keene State College, NH | 1998
  - 🎓 **Bachelor of Arts in Psychology & History** – Franklin Pierce University, NH | 1992
  - 🎓 **Educational Technology** – Northeastern University, MA | 2004–2005
  - 🎓 **School Administrator Certificate** – City University of New York – Hunter College, NYC | 2009
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## Professional Development


- Ongoing professional development in **computer science, curriculum design, and educational leadership**.
  - **Certified in ITIL and PRINCE2.**
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## Technical Skills


 **Programming:** Python, PHP, C, SQL, (learning Rust).

 **Web Development:** Full-stack expertise in PHP, and modern frameworks.

 **Databases:** Experienced with MariaDB, MySQL, SQLite, and relational database design.

 **Linux Administration:** Skilled in Debian-based systems, server setup, security, and automation.

 **Scripting & Automation:** Proficient in shell scripting, workflow automation, and system integration.

 **Software Development:** Git, Agile methodologies, test-driven development.

 **Cloud & Infrastructure:** LAMP stack, REST APIs, and cloud deployment.

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## Personal

Lifelong educator, happily married with **one daughter, a chocolate labrador, and two cats**. Passionate about **coding, history, and the intersection of games and education**. Amateur historian with a deep interest in **learning models, simulations, and problem-solving**. Instabliably curious.