

# Joshua Yoshio Liu

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## EXPERIENCE

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### Postabon, Inc

**Boston, MA**

*Consultant*

*Dec '09 – Jan '10*

- Recruited by founder to rework website user-interface immediately prior to company's feature on NY NBC and securing of 1.5MM in VC funding

### Epic Systems Corporation

**Madison, WI**

*Research and Development, EpicCare Inpatient EMR, Device Integration Pod*

*July '08 – Dec '09*

- Trained clinicians, elicited feedback, and triaged or fixed problems on hospital floors
- Developed functionality in nursing workflows to facilitate compliance with Joint Commission standards
- Wrote and maintained code allowing clinicians to interact with device data in patients' electronic charts

### Biomedical Design Group, The Johns Hopkins University

**Baltimore, MD**

*Team Leader, SurgiPack*

*April '07 – July '08*

- Managed cross-disciplinary team of ten engineers in invention of abdominal surgical device for the Director of the Kelly Gynecologic Oncology Service at Johns Hopkins Hospital
- Raised nearly \$100K in awards and grants by reaching out to dozens of sources internationally
- Licensed the global marketing rights of patents to Seguro Surgical, Inc
- Inspired revolutionary levels of achievement, reshaping organization's expectations for future years

*Staff Engineer, TrueFib Plus*

*June '06 – Aug '07*

- Championed novel approach to decrease false positives in implantable cardioverter-defibrillators by 50%
- Led development of control, signal processing, and classification software
- Collaborated with Mir Imran, pioneer of the first ICD, to fabricate prototype MEMS lead for animal testing
- Presented at American Society of Mechanical Engineers Frontiers in Biomedical Devices Conference

*Junior Engineer, EEG Keyboard*

*Jan '05 – Aug '05*

- Played key role in testing keyboard-based brain-computer-interface invented to aid paralyzed patients
- Delivered a natural language processing program, similar to cell phone text prediction, which resulted in a 40% overall increase in typing speed

### Center for Educational Resources, The Johns Hopkins University

**Baltimore, MD**

*Senior Programmer*

*June '05 – May '08*

- Created tools to foster innovative approaches to instructional and scholarly communication
- Advanced university libraries to digital collections and networked services in collaboration with the Krieger School of Arts & Sciences, the Whiting School of Engineering, the Sheridan Libraries, and Hopkins Information Technology Services
- Increased internal workflow efficiency through development of intranet services

### PeerDecision

**Queens, NY**

*Core Application Developer*

*June '07 – Dec '07*

- Augmented company's competencies; in one case, achieved 80% reduction of average SQL query runtime
- Pitched and implemented advertising strategy to venture capitalist and company management which produced 30% of ad revenue in following quarter

## EDUCATION

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### The Johns Hopkins University

**Baltimore, MD**

*B.S. in Biomedical Engineering*

*Aug '04 – May '08*

- Concentration in Computational Biology, Bioinformatics, and Imaging Science
- 3.62 cumulative GPA, 201 credit hours, significant coursework in Computer Science and Applied Mathematics and Statistics
- Graduated with General Honors, Alpha Eta Mu Beta biomedical engineering honor society, Tau Beta Pi national engineering honors society

## SKILLS

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### Computer Programming Languages, Mathematical and Engineering Software

- Ruby, C# / .NET, Python, Java, C / C++, VB
- LaTeX, R, MatLab, WEKA, Mathematica, SolidWorks 3D, AutoCAD Electrical, LabView, Pro/E

### Web Development, Computer Networking

- Experience as administrator for Linux, Windows 2000 / XP / Server 2003, Apache + Tomcat + OpenAMF, Lighttpd, Mongrel, and IIS platforms
- Proficient in Ruby on Rails, PHP, Java / J2EE / JSP, Adobe ColdFusion, MySQL, SQL Server 2000
- Cisco Certified Network Associate (2003), Cisco Certified Network Professional (2004), Certified Wireless Network Administrator (2004)