

RICHARD PENNINGTON BANISTER

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Portfolio: <http://www.minimumrage.net>

EDUCATION

VILLANOVA UNIVERSITY, Villanova, PA December 2008

B.S., Summa Cum Laude, in Computer Science

Concentrations: Cognitive Science, East Asian Studies. *Minor:* Japanese.

GPA: 3.93. First in department.

Honors: Blaise Pascal Medallion for excellence in Computer Science; Phi Beta Kappa; Alpha Sigma Lambda.

Coursework: AI, Machine Learning, Cognitive Science, Human Computer Interaction, Compilers, Web Apps.

PROJECTS

Language Learning Web App: Dynamic interactive video content creation system. Specified detailed requirements doc. Designed and implemented UI. Adobe Flex, XML, JavaScript, AJAX.

Asteroids-Style Game: Crafted engine with a focus on design patterns. Achieved high frame rate under load with efficient code. *Awarded first place in design competition by peer vote.* Java.

Game Playing Learning AI: Used genetic programming techniques to evolve AI based on game performance. Modified JGAP framework and existing game engine to fix defects and accommodate project. Java.

WORK EXPERIENCE

MONIST, DIVIDED SKY, NOW SOON NOWHERE and others, Exton, PA Fall 2001 - Present

Freelance Musician and Software Developer

- Wrote, produced, performed and recorded albums as a band, solo artist and guest musician. Performed live and toured. Recorded and edited promotional videos.
- Developed numerous freelance software projects, including Flash games, Android apps, and rich web applications.
- Designed and implemented websites using PHP, JavaScript, pure CSS layout, and AJAX. Integrated with third-party web services and APIs.

DATA VIEW, INC., Malvern, PA March 1998 - December 2004

Software Developer

- Worked in a small team to build a development platform for creating knowledge visualization applications that dynamically display asset status based on business rules and data.
- Wrote and maintained roughly half of Java code base. Developed application administration controls, push technology, security privileges, database connectivity, and user interface.
- Designed JSP and DHTML web applications for use with system.
- Wrote API and help documentation and taught software training sessions.

LEADERSHIP AND ACTIVITIES

VILLANOVA JAPANESE CLUB, Villanova, PA Fall 2005 - Spring 2008

President (2006 – 2008), Officer (2005 – 2006)

Increased event participation and club presence in school community by designing new activities, hosting prestigious guest speakers and organizing extensive promotional campaigns; established popular twice-weekly Japanese conversation sessions; managed nine club officers.

VILLANOVA PROGRAMMING TEAM, Villanova, PA Fall 2007 - Fall 2008

Competed in the ACM International Collegiate Programming Competition, 2007 and 2008.

LANGUAGES AND TECHNOLOGIES

- Java, JavaScript, CSS, Android SDK, Python, Flash and ActionScript, PHP, JSON, XML, Eclipse, Git.