Dilan Ustek

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Education

University of British Columbia *M.Sc. Computer Science*
Specialization: Human-Computer Interaction Expected Grad: 2017

Grinnell College *B.A. Computer Science*
Grad. date: Dec. 2013

Skills

UX Tools Sketch, Principle, JustInMind, SPSS
UX Methods Rapid prototyping, wireframing, roadmaps, personas, user flow, usability testing
Programming Java, MATLAB, Javascript, SQL, HTML, CSS, C, Python, JSP, Bash, Arduino, Tomcat

Work Experience

Research Assistant, Gelly Sensor Application Design *May 2016 -*
Gelly is a new capacitance-based touch localization and proximity sensor that is transparent and flexible.

- Design products and new mid-air interaction techniques on smartwatches using Gelly.
- Pitched product vision to industry partner(Qualcomm).
- Conduct user studies to define user needs and improve designs.
- Define strategy for Gelly by collaborating with material engineers on the development direction.

Project Manager and TA, Mobile BioAuthentication *Jan. - Apr. 2016*
As teaching assistants, we created 12 teams of 8 students for the Software Engineering Project course according to skills, experience, levels, and interests.

- Managed 4 teams of 8 student developers to do agile development for the client: Plurilock.
- Oversaw projects across multiple platforms.
- Drive decision-making, maintain development best practices, monitor workflow.
- Enabled communication between the client and the developers.
- 3/4 teams scored the highest score in the final (evaluated by the Professor and client).

Software Developer, Monitise *March 2014-June 2015*

- Developed back-end of mobile apps for major banks, and web-based admin panels for Bayer, Boehringer, and Glaxo-Smith Kline.

Summer Technology Analyst, Goldman Sachs *Summer 2012 and 2013*

- Developed web app to help traders better utilize social media to predict future activity and increase efficiency. Used JSP, Java, SQL, Javascript, HTML, CSS.
- Debugged and fixed major bugs that caused multiple internal applications to crash. Improved functionality and features.

Projects

Physical User Interface Design *Jan-Apr 2016*

- Polymer wrinkle display is a developing technology that will be able to render small corrugations. As the technology makes barely perceivable wrinkles, we examine the ways in which information can be conveyed in this context and explore the possible application space.
- Designing new interfaces for the upcoming technology using rapid prototyping.

Redesigning Yelp *Sept - Dec 2015*

- Re-imagined the Yelp experience as a feed of restaurant reviews.
- Produced two paper prototypes, and evaluated them by conducting cognitive walkthroughs and usability testing. Incorporated the findings in a medium fidelity prototype using JustInMind, and reiterated the usability testing process.

Bluetooth Communication Using C *Fall 2013*

- Developed a 2-way communication between a Linux workstation and a Scribbler robot based on the Bluetooth wireless protocol and the Standard C programming language.
- Project website: http://www.cs.grinnell.edu/ walker/bluetooth-with-c/

A C-Based Introductory Course Using Robots *Summer, Fall 2011*

- Redesigned curriculum for the Imperative Problem Solving and Data Structures course, using C to integrate Scribbler robots.
- Wrote a library of wrapper functions for C++ commands, labs, readings, and projects for the course.

Teaching

- TA for *Software Engineering Project* where I was a project manager for 4 teams of students in their semester-long project for a real industry client.
- *GirlSmarts*: Volunteer czar for UI/UX activity for young girls
- TA for Computers and Society
- TA for *Imperative Problem Solving and Data Structures* teaching C for 3 semesters, and for Object Oriented Design and Algorithms teaching Java for 1 semester.

Talks

- *Technical Opportunities Abroad*, Google Women TechMakers '15, Istanbul, Turkey
- *Turkish Women in Computer Science: a Systers Community*, Google DevFestW '14, Istanbul, Turkey
- *Course Development through Student-Faculty Collaboration* ACM-ITiCSE '14, Uppsala, Sweden
- *Introducing the C Programming Language* ACM-SIGCSE '12, Raleigh, NC

Awards

- Microsoft Scholarship 2012-13 Recipient
- Winner of Goldman Sachs Technology Infrastructure Summer Intern Competition 2012 2013

Publications

- **Ustek D**, Opavsky E, Walker H (2014) Course Development through Student-Faculty Collaboration: A Case Study, *Proceedings of ACM-ITiCSE*
- Cowden D, ONeill A, Opavsky E, **Ustek D**, Walker H (2012) A C-Based Introductory Course Using Robots, ACM-SIGCSE, *43rd ACM tech. symp.*, pg. 27- 32
- **Ustek D**, Kohrman A, Krstic B, Fernandez K (2013) ExonSuite: Algorithmically Optimizing Alternative Gene Splicing for the PUF Proteins, *Elsevier Computers in Biology and Medicine*
- Grace Hopper Celebration of Women in Computing 2012 Undergraduate Poster

Leadership

Supervisor for Undergraduate Researcher *Sept. 2016 -*

- Supervising and mentoring undergraduate researcher in the Gelly project.

GirlSmarts UI/UX Czar *Feb 2016*

- GirlSmarts teaches young girls about technology. My role was to lead the UI/UX session.

Computer Science Student Educational Policy Committee *2012, 2013*

- Review professors for tenure or hiring, organize weekly study breaks, represent students' voice in the department.

Languages

Turkish (native) , English (near-native), French (intermediate), German (intermediate)

Personal Achievements

Climbed Mt. Ararat. 5,137 m. (16,854 ft.)
Certificated Advanced Open Water Diver

For Fun

Krav Maga
Modern Dance and Ballet
Guitar
Tennis
Hiking