

Ümit Can Bekar

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EDUCATION

- Koç University, Graduate School of Science and Engineering, Istanbul** 2011:2013
M.Sc. Computer Science and Engineering, with Full Scholarship | GPA: 3.65/4.00
Advisor: Assistant Professor Serdar Tasiran
Selected course work: Parallel Programming, Software Verification, Advanced Data Structures and Algorithms
- Sabancı University, Faculty of Engineering and Natural Sciences, Istanbul** 2005:2009
B.Sc. Electronics Engineering & Mathematics Minor | GPA: 3.28/4.00 (Core GPA: 3.7)
Selected course work: Hardware Description Language, Data Structures, Abstract Algebra
Sabancı University Merit Scholarship, numerous appearances on Dean's lists, ranked <200 in nationwide graduate student exams (ALES)
- Adana Science High School, Adana** 2002:2005
Ranked <1500 in nationwide university entrance exam (OSS) among 1.5 million high-school graduates

EXPERIENCE

- Software Engineer at R&D, Full-time position in Yapi Kredi Bankasi, Istanbul** 2013:now
R&D and Special Projects
Designed & developed tens of small to medium sized (5-10K loc) C# and Java applications in solo, all of them with server/client architectures, many of them in line for integration to the banking system for improving productivity of hundreds of operators
Designed, developed, deployed and maintaining a UI win app with a fast OCR backend, able to respond in virtually real time, which increases productivity of hundreds of employees; gets 5K hits/day
Leading and maintaining an in-house assembly deployment and peripheral management framework; more than 40K computers in its network
Research, prototyping, engineering and maintenance jobs on two large scale projects involving noisy text processing and classification, both working on top of an OCR API (projects are funded by Tubitak)
Overall R&D output in first year: 1 app deployed, 2 projects on test environment, 2 patents pending, 1 intl. conference paper published
Managed 2 software developer interns through summer
- Koç University Research Center for Multicore Software Engineering, Istanbul** 2011:2013
In collaboration with Microsoft Research and Barcelona Supercomputing Center
Head TA of the Java & Head RA of the Project Kuda, receiving Intel and Microsoft Research Scholarships
"KUDA: GPU Accelerated Split Race Checker", published in the Workshop on Determinism and Correctness in Parallel Programming (WoDet), co-located with ASPLOS'12, presented the work to a distinguished audience of 50 in London.
Presented the poster on Pumps'12 in Barcelona and on Acaces'12 in Milan.
- Bogazici University, Faculty of Engineering, Istanbul** 2009:2011
M.Sc. Electronics & Electrical Engineering | (discontinued)
Course work: Formal Verification, Hardware Description Languages
Developed a Chess game with a VGA display using an FPGA
Developed parallel software tool for weak conjunctive predicate detection of generic MCAPI applications
Implemented a parallel Dijkstra's Shortest Path algorithm in C using pthreads
- Embedded Systems Engineer, Full-time position in Techneon Mutsis, Istanbul** 2009:2011
Developed all the necessary firmware in C/C++ for TI's MSP430 used in HF RFID reader *product family*, supporting ISO14443, ISO15693 and Mifare standards with wired&wireless mesh networking capabilities, commercial products *verified* with ISO/CE industry standards
Deployed these readers to Bogazici University Campus facilities
- Internship followed by Part-time Job in IBM Turk, Istanbul** 2008:2009
"Distinguishing cancerous cells by using morphological image processing applications on clustered CELL BE microprocessors", published in IBM Internal Journal
Developed signal processing C library with SIMD for PlayStation3
Provided performance tuned library working on a PS3 grid for processing tens of GBs of biopsy images
- Leonardo da Vinci Programme at Mälardalen Högskola, Sweden** 2007
Vocational education and training, worked at Robotdalen designing humanoid robots
- Freshman Project with Publication** 2006
"Movement of Computer Mouse Pointer with Electro-Oculography (EOG)", presented at Biyomut'06 conference
Designed amplifiers and filters using IC's to capture EOG signals

ACTIVITIES

Computer Science Student Workshop, CSW'13, <i>Workshop Chair</i> , Istanbul	Apr'13
Hipeac Summer School, ACACES'12, <i>Thesis Poster Presentation</i> , Milan	Jul'12
Barcelona Computing Week, BCW'12, <i>Thesis Poster Presentation</i> , Barcelona	Jul'12
Arch. Support for Programming Languages & OS, ASPLOS'12, <i>Thesis Oral Presentation</i> , London	Mar'12
Computer Science Student Workshop, CSW'12, <i>Logistics Chair and Oral Presentation</i> , Istanbul	Apr'12
ACM European Chapters Workshop, <i>Student Chapter Chair</i> , Paris	Jan'12
Microsoft Summer School, SSSEV'11, <i>Attendee</i> , Moscow	Jul'11
University of Illinois at Urbana-Champaign Summer School, UPCRC'10, <i>Attendee</i> , Chicago	Jul'10
KU ACM Student Chapter, <i>Chair & Co-founder</i>	2010-2012
SU IEEE Student Chapter, <i>Secretary</i>	2007-2009

SKILLS

Java, C/C#, IIS, Tomcat, Cuda, Posix Threads, MPI, Parallel Programming, Unix/Linux, English (Toefl ibt: 102/120)